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UNITED
STATES
AIR FORCE
ACADEMY



catalog 1958-1959

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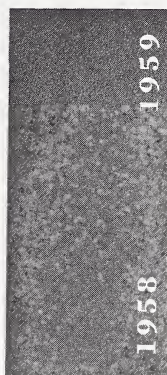
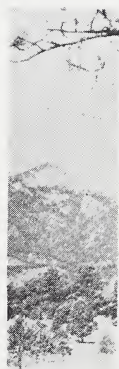
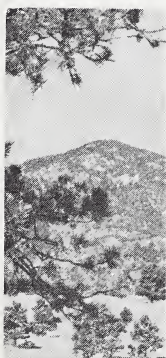
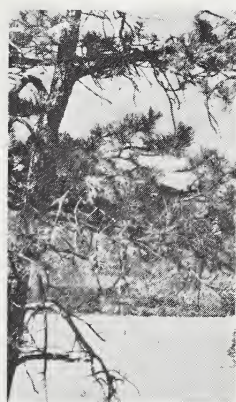
NUMBER 4

ISSUED ANNUALLY

MAY 1958



Catalog
of the
United States
Air Force
Academy



COLORADO SPRINGS, COLORADO



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calendar 1958-1959

4 Jun 58, Wednesday	<i>Summer Term Begins</i>
27 Jun 58, Friday	<i>Class of 1962 Enters</i>
4 Jul 58, Friday	<i>Holiday, Independence Day</i>
30 Aug 58, Saturday	<i>Summer Term Ends and Transition Period Begins</i>
1 Sep 58, Monday	<i>Holiday, Labor Day</i>
3 Sep 58, Wednesday	<i>Transition Period Ends and Fall Term Begins</i>
11 Nov 58, Tuesday	<i>Holiday, Veterans' Day</i>
27 Nov 58, Thursday	<i>Holiday, Thanksgiving Day</i>
20 Dec 58, Saturday	<i>Fall Term Ends and Christmas Leave Begins</i>
4 Jan 59, Sunday	<i>Christmas Leave Ends</i>
5 Jan 59, Monday	<i>Spring Term Begins</i>
23 Feb 59, Monday	<i>Holiday, Washington's Birthday</i>
7 Mar 59, Saturday	<i>Field Trips Begin (2d, 3d, 4th Classes)</i>
9, 10 Mar 59, Monday, Tuesday	<i>First Class Trip</i>
22 Mar 59, Sunday	<i>Field Trips End (2d, 3d, 4th Classes)</i>
29 May 59, Friday	<i>Second Term Ends</i>
30 May 59, Saturday	<i>Holiday, Memorial Day</i>
31 May 59, Sunday	<i>June Week Begins</i>
3 Jun 59, Wednesday	<i>June Week Ends Graduation Day, Class of 1959</i>

Board of Visitors to the Air Force Academy — 1958***Appointed by the President of the United States***

Dr. Arthur H. Compton	<i>Former Chancellor, Washington University, St. Louis, Missouri</i>
Maj. Gen. Edward P. Curtis	<i>USAFR, Vice President, Eastman Kodak Company, Rochester, New York</i>
Dr. John A. Hannah	<i>President, Michigan State University, East Lansing, Michigan</i>
Mr. Victor Emanuel	<i>Chairman of the Board, AVCO Corporation, New York, New York</i>
Gen. Carl A. Spaatz	<i>USAF Retired, Former Chief of Staff USAF, Washington, D.C.</i>
Maj. Gen. James McCormack	<i>USAF Retired, Assistant to the President, Massachusetts Institute of Technology, Cambridge, Massachusetts</i>

Appointed by the Vice President of the United States

Sen. Dennis Chavez	<i>New Mexico</i>
Sen. Henry C. Dworshak	<i>Idaho</i>
Sen. Thomas H. Kuchel	<i>California</i>

Appointed by the Speaker of the House of Representatives

Rep. Errett P. Scrivner	<i>Kansas</i>
Rep. Don Magnuson	<i>Washington</i>
Rep. J. Edgar Chenoweth	<i>Colorado</i>
Rep. Byron G. Rogers	<i>Colorado</i>

Ex-Officio Members of the Board*

Sen. Richard B. Russell	<i>Georgia, (Represented by Sen. Frank A. Barrett, Wyoming)</i>
Rep. Carl Vinson	<i>Georgia, (Represented by Rep. George P. Miller, California)</i>

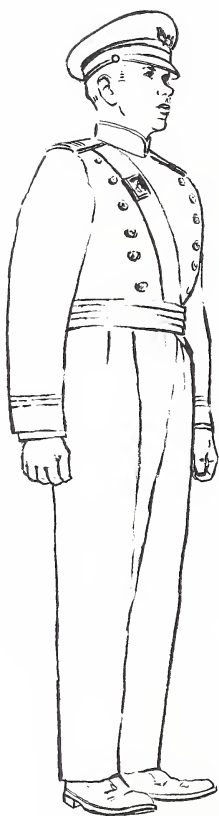
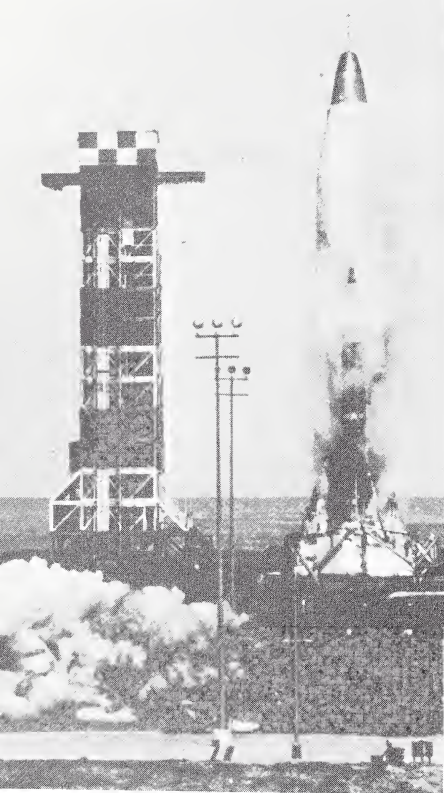
**The Chairman of the Committee on Armed Services of the Senate and Chairman of the Committee on Armed Services of the House of Representatives, or designees, are, by law, ex-officio members of the Board of Visitors.*

Officers of Administration

Superintendent	<i>Maj. Gen. James E. Briggs</i>
Commandant of Cadets	<i>Brig. Gen. Robert M. Stillman</i>
Dean of Faculty	<i>Col. Robert F. McDermott</i>
Chief of Staff	<i>Col. Stephen D. McElroy</i>
Air Base Commander	<i>Col. Jasper A. Westbrook</i>
Director of Athletics	<i>Col. George B. Simler</i>
Registrar	<i>Lt. Col. Virgil J. O'Connor</i>
Operations Squadron Commander	<i>Maj. Leonard M. Legge</i>

Academy Board

President	<i>Superintendent</i>
Members	<i>Dean of Faculty</i> <i>Commandant of Cadets</i> <i>Deputy Commandant of Cadets</i> <i>Chairman of Social Sciences</i> <i>Chairman of Humanities</i> <i>Chairman of Basic Sciences</i> <i>Chairman of Applied Sciences</i> <i>Director of Flying Training</i> <i>Director of Military Studies</i> <i>Director of Physical Education</i>
Secretary	<i>Chief of Staff</i>





mission

The mission of the Air Force Academy is to provide instruction, experience, and motivation to each cadet so that he will graduate with the knowledge and the qualities of leadership required of a junior officer in the United States Air Force, and with a basis for continued development throughout a lifetime of service to his country, leading to readiness for responsibilities as a future air commander.

Objectives

A General Education Program and a Military Airmanship Program constitute the four-year education and training of a cadet at the Air Force Academy. Successful completion of both programs entitles the cadet to graduate with a Bachelor of Science degree, a rating of second lieutenant in the Regular Air Force, and an aeronautical rating of navigator.

General Education Program

The General Education Program promotes career motivation in the Air Force and contributes to intellectual and cultural development in the following ways:

By providing general courses in liberal arts, science, and engineering studies which furnish a foundation for future development in any of the numerous career fields open to Air Force officers.

By providing special courses to meet the needs of the individual cadet in developing his full academic potential.

By motivating the cadet for continued educational development after graduation through self-instruction and attendance at professional graduate schools.

By preparing the cadet to fulfill his intellectual duties as a citizen and a dedicated public servant in the Air Force.

Military Airmanship Program

The Military Airmanship Program develops the cadet into an officer who understands the mission of the Air Force and has the knowledge to serve the mission capably through the following methods:

By instilling within the cadet a high sense of honor, duty, and self-discipline.

By motivating him for a career in military aviation and providing a foundation for future specialization in various fields of manned aircraft and guided missiles.

By preparing the cadet for leadership through the development of skills in creative thinking, individual and group problem solving, and human relations.

By providing a general knowledge of national defense policy, the missions of the Armed Services, and the principles of combat air operations.

By developing the cadet physically so that his endurance will meet the demands of leadership.

Historical Background

Establishment

The creation of an academy to prepare officers for a career in the United States Air Force had been advocated for many years by General Billy Mitchell and other public and military leaders who foresaw the development of military aviation. The idea was not officially considered, however, until 1949 when the Secretary of Defense appointed a board of outstanding military and civilian educators to recommend a general system of education for the Army, Navy, and Air Force. The chairman of this board was Dr. Robert L. Stearns, then President of the University of Colorado, and the vice chairman was General Dwight D. Eisenhower, then President of Columbia University.

Early in 1950 the board concluded that a nucleus of Regular officers from the Armed Services should be educated, trained, and dedicated from youth onward for a lifetime of service to their country. It found that the needs of the Air Force could not be met by any desirable expansion of the existing service academies and recommended that an Air Force Academy be established without delay. The Congress approved legislation to establish the Air Force Academy, and President Eisenhower signed it into law on April 1, 1954.

Construction

On July 1, 1955, the Academy's first class of 306 cadets — the Class of 1959 — began their training and education at temporary quarters on Lowry Air Force Base in Denver, Colorado. Sixty miles south near Colorado Springs, construction is now in progress on the permanent physical plant from which the Class of 1959 will be graduated. The move to the permanent site will be accomplished from the fall of 1958 through the spring of 1959.

The Congress delegated to the Secretary of the Air Force the responsibility of selecting the Air Force Academy's permanent site. Harold E. Talbott, the Air Force Secretary at that time, chose as his selection committee: Dr. Virgil M. Hancher, President of the University of Iowa; Merrill C. Meigs, Vice President of the Hearst Corporation; General Carl A. Spaatz, USAF Retired; Brig. Gen.

Charles A. Lindbergh, USAF Reserve; and Lt. Gen. Hubert R. Harmon, USAF.

The states were asked to submit their suggestions for the location of the permanent site. After screening some 400 locations and visiting proposed sites in 22 states, the committee reduced the number to three possibilities: Alton, Illinois; Lake Geneva, Wisconsin; and Colorado Springs, Colorado. Following a personal inspection of the three locations, the Secretary named Colorado Springs as the permanent home of the United States Air Force Academy on June 24, 1954. Among the factors the site selectors considered were acreage, community facilities, topography, climate, water supply, utilities, transportation, and cost of construction.

The Air Force Academy Construction Agency, under the direction of Col. Albert E. Stoltz, was created to direct the planning, designing, and construction of the Academy. The architectural firm of Skidmore, Owings, and Merrill of Chicago was appointed Architect-Engineer for the huge building project.

Work on the project began late in 1954. Top priority has been given to the academic area which contains the cadet quarters, cadet store, academic structures, library, dispensary, dining hall, chapel, superintendent's headquarters, social center, and planetarium. The completed Academy plant will also include a parade and drill field, athletic fields, physical education building, hospital, family and bachelor officers' housing, community center, and service and supply center.

Academy Superintendents

The late Lt. Gen. Hubert R. Harmon was the first Superintendent of the Air Force Academy. General Harmon retired from active duty with the Air Force on July 31, 1956. His successor and present Superintendent is Maj. Gen. James E. Briggs, a graduate of the United States Military Academy. General Briggs was Deputy Commander of the Far East Bomber Command during the Korean War and later Assistant Deputy Chief of Staff for operations at Headquarters, United States Air Force.

Cadet Selection

The Air Force Academy Act provided for competitive selection of cadets during the Academy's initial four years when the enrollment

would be limited at the temporary site. The competitive selection system was designed to obtain those young men who could best accomplish three independent objectives of instruction: academic achievement, skill as an aerial navigator and a pilot, and demonstration of effective leadership traits. Entrance examinations and an evaluation of high school academic and extracurricular activities have been used as criteria for competitive selection.

Approximately 300 cadets were admitted in each of the first three classes from 1955 through 1957. Eighty-five percent were chosen from nominees of U. S. Senators and Representatives, and the remainder came from nominees entered in various other area and service-connected categories. A fourth class of 448 cadets, who have been chosen by the competitive system, will enter the Academy in June 1958.

Beginning in 1959 each entering class will have approximately 712 cadets. At that time a revised Congressional nomination and selection system will go into effect through 1962. Full details of the new system are included under Methods of Nomination and Appointment in the Admissions portion of the catalog.

All cadets admitted to the Air Force Academy in previous years were required to be physically qualified for pilot training. In view of the rapid development of new weapons systems and concepts, the Air Force may consider a well-qualified candidate for admission to the Academy, even though he has a minor physical defect which disqualifies him for pilot training. Cadets who are admitted under a physical waiver must possess high academic qualifications.

important dates

**June 1, 1958-January
31, 1959**

Application and Nomination Period

December 1958-March 1959

Air Force Testing

March 14, 1959

*College Entrance Examination Board
Tests (Regular Date)*

April 4, 1959

*College Entrance Examination Board
Tests (Make-up Date)*

April-May 1959

*Air Force Medical Examination for
Flying Training*

Mid-May 1959

Cadet Class Selected

June 26, 1959

Cadet Class Enters

admissions

Prospective candidates or other interested persons who desire additional copies of this catalog or have questions not fully answered by this information should write to:

Director of Admissions
United States Air Force Academy
Denver, Colorado

NOTE: The Cadet Wing and the Faculty are scheduled to move in September 1958 to the permanent site of the Air Force Academy near Colorado Springs. The Director of Admissions is due to remain at the temporary site in Denver until the spring of 1959. Until further notice is published, all correspondence to the Director of Admissions should be sent to the above address.

Eligibility Requirements

To be eligible for a cadet appointment to the class entering the Academy on June 26, 1959, a young man must meet the following basic requirements:

Age

He must be at least 17 and not yet 22 years of age on July 1, 1959.

Citizenship

He must be a male citizen of the United States.

Character

He must have good moral character.

Marital Status

He must be unmarried and never have been married. (Any cadet who marries will be discharged from the Academy.)

Physical Standards

Pilot Training

Candidates will be expected to meet the physical standards for Air Force pilot training which include: *Vision* — Excellent vision meaning 20/20 vision without glasses, good color perception, muscular balance, and no chronic disease of the eyes. *Height and Weight* — Not less than 5 feet 4 inches and not more than 6 feet 4 inches tall with weight in normal relation to height. *Physical Condition* — No bodily defects or chronic or recurrent diseases which could interfere with normal health or performance of flight duties. A cadet who qualified physically for pilot training upon admission will be required to enter Air Force pilot training upon graduation, provided he still meets the physical standards.

Special Medical Waivers

In certain instances, waivers of minor physical defects may be authorized for candidates who are exceptionally well qualified academically, and are otherwise fully qualified for admission to the Air Force Academy. Medical qualification will be considered after all other entrance requirements have been fulfilled. Justification for waiver will be determined by Academy authorities and forwarded to Headquarters, United States Air Force, without a special request from the candidate. Cadets who receive a medical waiver will not enter pilot training after graduation from the Academy.

General Requirements

Nominations

Entrance examinations are used as a basis for the selection and appointment of Air Force cadets. A young man who desires to take the entrance examinations must first apply for and obtain a nomination in at least one of the authorized categories described in the section entitled Nominating Categories. All of the nominating sources are established by law, and no one can take the examinations and be considered for an appointment to the Academy unless officially nominated as a candidate.

An applicant should study the nominating categories to determine what kind or kinds of nomination he is eligible to seek. Since specific cadet vacancies are allocated to each nominating category, an applicant may improve his chances of selection by applying in all the categories in which he is eligible.

How to Apply

There are no special application forms issued to prospective candidates. A regular business type letter is all that is required to apply for a nomination, (except Regular and Reserve component applicants who must complete the standard form available from their unit commander). Information to include in the various letters of application is contained in the Nominating Categories section.

An applicant should furnish all the information requested to establish that he is qualified in the category for which he is applying.

When to Apply

An applicant may be nominated for the cadet class entering on June 26, 1959, only between June 1, 1958, and January 31, 1959, (except preparatory school applicants in the Armed Services who may apply for a nomination in all categories other than Congressional as early as March 1, 1958). A young man who desires to enter this class is advised to apply early in the nomination period if possible.

It is particularly important in applying for a Congressional nomination to submit a request early. A number of the Senators and Representatives require their applicants to take a Civil Service examination to assist them in selecting the best qualified nominees. Ordinarily the examination is given to applicants in July and November. Members

of Congress may choose their candidates at any time during the nomination period and submit their names to the Academy.

The method that a Senator or Representative uses to select his nominees is entirely within his own discretion. The Academy does not administer the Civil Service examination which Members of Congress may require and does not advise prospective candidates on how to prepare for this examination.

Notification of Nomination

An applicant who is nominated as a candidate to the Air Force Academy will be officially notified by the Academy Director of Admissions. Instructions pertaining to the Air Force entrance examinations and the College Entrance Examination Board Tests will be included with the letter of notification. Personal history forms which a candidate must complete will be distributed during testing at an Air Force examining center.

An applicant may be notified by a Member of Congress that he will be nominated, but until his name has been submitted to the Air Force Academy, he will not receive an official notice of nomination from the Director of Admissions.

Withdrawal

After receiving a nomination, if a candidate should decide to withdraw because of a physical defect or other reasons, he should notify the Director of Admissions immediately. A Congressional nominee should also notify the Senator or Representative who nominated him.

Documentary Evidence

A candidate will be instructed to submit a copy of his birth certificate. If he cannot furnish a copy, he should notify the Director of Admissions stating the reason why. Permission may be granted to submit legally-acceptable documentary evidence in lieu of the birth certificate.

When applying for a nomination, an applicant should use the name which appears on his birth certificate. If he should desire to use a different name on his records, he will be required as a candidate to furnish evidence of the court order supporting the legal change of his own name. Legal change of his parents' name will not be acceptable.

A citizen by naturalization must submit a notarized statement confirming the certificate of citizenship number, court location, and date. An adopted son must furnish a court order or other legal evidence of adoption.

Change of Address

A candidate who has a change of address for any reason, including leaving his home to attend college, should promptly notify the Director of Admissions, United States Air Force Academy, Denver, Colorado. A Congressional nominee should also notify the Senator or Representative who nominated him. The notification should include his complete name and old and new addresses. It is important that a candidate's records reflect his current address, particularly in regard to scheduling examinations at the center nearest to him.

Schedule of Entrance Examinations

Examinations to measure qualification for the Air Force Academy will be given to candidates as follows:

1. The Physical Aptitude Examination and the Air Force Officer Qualifying Test will be conducted at Air Force examining centers from December 1958 through March 1959. Approximately three days will be required to complete these tests.
2. The College Entrance Examination Board Tests will be completed in one day on Saturday, March 14, 1959, or Saturday, April 4, 1959. College Board examining centers will give the tests on March 14, the regular date for Air Force Academy candidates. A limited number of Air Force examining centers will give the tests on the make-up date of April 4.
3. The Air Force Medical Examination for Flying Training will be given at Air Force installations in April and May 1959. Candidates will complete this examination in one or two days.

Complete information regarding these examinations is included in the section entitled Entrance Examinations.

Obligations of Cadet Appointment

Upon admission each cadet will be required to sign an agreement that, unless sooner discharged by competent authority, he will:

1. Complete the course of instruction at the Air Force Academy.

2. Enter the Air Force pilot training program following graduation, if he is physically qualified.
3. Accept an appointment and serve as a commissioned officer of the Regular Air Force for four years. (The Department of Defense has established the four-year obligated tour for graduates of all service academies. Current Air Force policy requires that the four-year obligated tour will begin for Air Force Academy graduates upon completion of basic pilot training. The total time for pilot training is approximately one year.)

Candidates under 21 years of age must have the consent of their parents or a guardian before signing the obligation.

Methods of Nomination and Appointment

Each U. S. Senator and Representative will have one cadet vacancy to fill in each entering class. The Member of Congress may choose between the two methods of appointment as follows:

1. Principal-Alternate Method

He may nominate one principal candidate and ten alternate candidates listed in the order of his preference. If the principal candidate qualifies on the entrance examinations, he will be offered the appointment. If the principal does not pass the examinations, the first alternate candidate who qualifies will be chosen.

2. Competitive Method

He may nominate eleven candidates and authorize the Air Force Academy to select his best qualified candidate for the appointment. Each one of the eleven candidates who qualifies on the entrance examinations will be evaluated by the Academy on his high school academic achievement, extracurricular activities, and recommendations of school principals and teachers. His entrance examination scores will be combined with this evaluation to form a composite score. The candidate with the highest composite score will be offered the appointment.

The same method of nomination and appointment will apply to the following nominating authorities: Congressional Delegates of Hawaii and Alaska, the Resident Commissioner of Puerto Rico, the Governor of the Canal Zone, Commissioners of the District of Columbia, and the Vice President of the United States.

Cadets will be selected for appointment on a competitive basis from candidates entered in the following categories: Presidential, Sons of Deceased Veterans, Regular and Reserve Components, and Honor Military Schools. Cadets chosen from Qualified Alternate candidates will also be selected competitively. The elements of competition are scores achieved in the entrance examinations and evaluations of school records. A composite score will be recorded for each candidate, and appointments will be made by order of merit to fill the cadet vacancies.

Sons of Medal of Honor winners will be offered an appointment to the Academy, provided they qualify on the entrance examinations.

Nominating Categories

Congressional

A total of 531 cadet vacancies will be filled from nominees of Members of Congress. Each Senator and Representative may nominate eleven candidates. Any resident of the 48 states who meets the Academy eligibility requirements may apply for a Congressional nomination. The applicant must make his request directly to a U. S. Senator from his state or to a U. S. Representative from his Congressional district. The applicant's letter should include the following:

1. His name, address, and date of birth.
2. Parents' name.
3. Information on education and extracurricular activities.
4. Information on physical qualifications.

A sample Congressional letter of application is given in the appendix of this catalog for guidance to the applicant.

District of Columbia

Two vacancies are reserved for the District of Columbia. The Commissioners of the District of Columbia may nominate eleven candidates for each vacancy. A letter requesting nomination from a Commissioner should contain the same information required of Congressional applicants.

Territories of Alaska and Hawaii, the Canal Zone, and the Commonwealth of Puerto Rico

Residents from these locations may apply for a nomination to the appropriate nominating authority as follows:

	<i>Vacancies</i>	<i>Nominating Authorities</i>
Hawaii	1	Delegate in Congress
Alaska	1	Delegate in Congress
Puerto Rico	1	Resident Commissioner
Canal Zone	1	Governor of the Canal Zone

A letter of application to one of these nominating authorities should contain the same information required of Congressional applicants.

A candidate from Alaska, Hawaii or Puerto Rico must be a resident of the area from which he is nominated. To be eligible for nomination by the Governor of the Canal Zone, a person must be the son of a U. S. citizen residing in the Canal Zone, or the son of U. S. citizen employed by the United States Government or the Panama Canal Company residing in the Republic of Panama.

Vice Presidential

One vacancy is reserved for the Vice President of the United States who may nominate eleven candidates from the nation at large. A letter requesting nomination should be addressed to the Vice President and should contain the same information required of Congressional applicants.

Presidential

Twenty-two vacancies are allocated to the President of the United States, who in turn has reserved these vacancies for sons of members of the Regular components of the Armed Services (Army, Air Force, Navy, Marine Corps, and Coast Guard). The eligibility requirements of the law specify that the Regular component member may still be in the service, retired or deceased, but not discharged before retirement. The son of a member of the Reserve component is not eligible in this category, unless his parent received a Reserve commission or warrant while on enlisted status in the Regular component.

To request a nomination in this category, an applicant must write to the Director of Admissions, United States Air Force Academy, Denver, Colorado. The applicant's letter must include the following:

1. His full name, address, and date of birth.
2. His rank, service number, organization, and station, if a member of the military service.

3. The full name, rank, service number, branch of service, and length of service of the parent connected with the Regular component.
4. Evidence of the parent's term of enlisted status, date of discharge therefrom, and date of commission or warrant, if the parent was previously enlisted in the Regular component and now has a commission or warrant in the Reserve component.

There are no limits on the number of candidates who may compete in the Presidential category. If it is determined that an applicant meets the eligibility requirements, he will be confirmed as a candidate in this competition.

Sons of Deceased Veterans

Ten vacancies are reserved for sons of deceased veterans who were killed in action or died of wounds, injuries, or disease incurred in active service during World War I, World War II, or after June 26, 1950, and before February 1, 1955.

To request a nomination in this category, an applicant must write to the Director of Admissions, United States Air Force Academy, Denver, Colorado. The applicant's letter must include the following:

1. His full name, address, and date of birth.
2. His rank, service number, organization, and station, if a member of the military service.
3. The full name, service number, rank, and branch of service of the parent whose service-connected death entitles him to enter the competition.
4. A brief statement concerning the date, place, and cause of death, together with the claim number assigned to the parent's case by the Veterans Administration.

There are no limits on the number of candidates who may compete in the Sons of Deceased Veterans category. If it is determined that an applicant meets the eligibility requirements, he will be confirmed as a candidate in this competition.

Regular Components

Twenty-three vacancies are reserved for members of the Regular Army and the Regular Air Force who have completed one full year of active Regular service by July 1 of the year in which they would be

admitted to the Academy. A candidate must be an active member of the Regular component when appointed to the Academy, but his year of required service time does not have to be continuous.

A joint Army-Air Force regulation (AR 350-55, AFR 53-10, "Appointment to the United States Air Force Academy") gives complete directions for making application in this category. A prospective candidate must apply through his unit commander, who will process his application and forward it to the Academy Director of Admissions for a determination of eligibility.

Reserve Components

Twenty-two vacancies are allotted for members of the Reserve components of the Air Force and the Army (Army Reserve, Air Force Reserve, Air National Guard, and Army National Guard) who have completed one full year of Reserve service by July 1 of the year in which they would be admitted to the Academy. Although his service does not have to be continuous, a candidate must be in active Reserve status at the time of admission.

A joint Army-Air Force regulation (AR 350-55, AFR 53-10, "Appointment to the United States Air Force Academy") gives complete directions for making application in this category. A prospective candidate must apply through his unit commander, who will process his application and forward it to the Academy Director of Admissions for a determination of eligibility.

Honor Military Schools

Ten vacancies are reserved for honor graduates of honor military schools. The Departments of Army, Navy, and Air Force determine annually which schools will be awarded this honor. Each honor military school may nominate three candidates from its honor graduates or prospective graduates to compete for the cadet vacancies. The schools must submit their nominations to the Director of Admissions, United States Air Force Academy, Denver, Colorado, before January 31, 1959.

Each nomination must contain a certification by the head of the institution that the candidate was an honor graduate or is a prospective honor graduate during a year that the institution was designated an honor school.

Sons of Medal of Honor Winners

The son of a Medal of Honor winner who served in any branch of the Armed Services may apply for a nomination in this category. If an applicant meets the eligibility criteria and qualifies on the entrance examinations, he will be admitted to the Academy. Vacancies are not limited in this category.

An applicant must write to the Director of Admissions, United States Air Force Academy, Denver, Colorado, requesting a nomination. The letter must include the following:

1. His full name, address, and date of birth.
2. His rank, service number, organization, and station, if a member of the military service.
3. The full name, rank, service number, and branch of service of the parent to whom the Medal of Honor was awarded.

Qualified Alternates

In each entering class, the Air Force Academy Board may recommend qualified alternates for appointment in whatever number may be necessary to bring the Cadet Wing to its authorized strength. Only those qualified alternate candidates named by Members of Congress, the Territorial Delegates, and the Resident Commissioner of Puerto Rico will be considered. Not more than one qualified alternate nominated by any one authority may be appointed each year. No application by the individual is necessary, since all qualified candidates will be considered by the Academy Board.

Entrance Examinations

All candidates will be required to take the Physical Aptitude Examination, the Air Force Officer Qualifying Test, and the College Entrance Examination Board Tests. Candidates who achieve the minimum qualifying scores on these tests will then be required to take the Air Force Medical Examination for Flying Training. Candidates who fail to meet the minimum qualifying test scores will not be eligible for further consideration for a cadet appointment and, therefore, will not be scheduled for the medical examination.

Candidates who fail to receive an appointment the first year they take the examinations may apply for a nomination in a subsequent year, but they must take the entrance examinations again if nominated. A

candidate who is found definitely to have a permanent physical disability on the Medical Examination for Flying Training is urged not to apply for another nomination.

Air Force Tests

Each candidate will be scheduled to take the Air Force Academy Physical Aptitude Examination and the Air Force Officer Qualifying Test at the Air Force examining center nearest to him. (A list of examining centers is included in the appendix.)

The Academy Director of Admissions will notify the candidate regarding the time and place to report for these examinations. If a candidate cannot report at the time specified, he may request a change in the testing date. The request should be submitted at least three weeks prior to the scheduled testing date, unless special circumstances are involved which make this impossible. In his request the candidate should specify his first and second choices of preferable testing dates. Tests are usually scheduled on Monday of every other week, from the first Monday in December through the third Monday in March.

Approximately three days are required to complete the tests. Travel expenses must be paid by the candidate, unless he is a member of the Armed Services on active duty. Meals and living accommodations while at the examining center will be provided at a nominal cost to the candidate.

The Physical Aptitude Examination includes a series of physical aptitude exercises designed to measure strength, coordination, endurance, speed, and agility. Candidates are advised not to write for sample test items. One may prepare for this examination simply by keeping in good physical condition — engaging in competitive games and conditioning exercises — rather than by practicing on specific test items.

The Air Force Officer Qualifying Test includes a series of questions covering the following:

Reading Comprehension	General Mathematics
Vocabulary	Aviation Information
General Knowledge	Mechanical Information
General Science	Table Reading
Arithmetical Reasoning	Spatial Orientation

The Air Force Officer Qualifying Test measures ability and aptitude factors within a broad scope. A candidate may prepare for this test in a general rather than a specific way by following the Preparation Guide for Candidates, presented in a subsequent section. Since a young man's entire educational background, as well as his motivation and aptitude for an Air Force career, are measured by this test, it is not possible or desirable to study specifically for the questions given. For that reason, previous test copies or sample questions will not be furnished to a candidate.

College Entrance Examination Board Tests

A candidate will be required to take the following College Entrance Examination Board Tests:

The Scholastic Aptitude Test

Two Achievement Tests:

1. Intermediate Mathematics or Advanced Mathematics (optional choice)
2. English Composition

The candidate must apply directly to the College Entrance Examination Board to be scheduled for these tests. The required application form is contained in a bulletin of information, *College Board Tests*, forwarded to the candidate without charge by the Director of Admissions. A description of the tests and sample questions will be sent to the candidate by the College Board, if he indicates a request on the application form.*

The College Entrance Examination Board will schedule the candidate to take the tests on March 14, 1959, at a College Board examining center in a community in which he resides, or at a center within approximately 75 miles of his community.

If circumstances arise which make it impossible for a candidate to take the tests on March 14, he may submit a request to be scheduled for the tests on April 4. A letter containing his reason for requesting the April 4th make-up date should be addressed to the Director of

*If a young man should desire to secure a description of the tests and sample questions prior to the time he becomes a candidate, he may write to Educational Testing Services at one of the following addresses: Box 592, Princeton, N.J., or Box 27896, Los Angeles, Calif. He should request a copy of the publications *Scholastic Aptitude Tests* and *Achievement Tests*. There is a 50 cent charge for each publication, or a total of \$1.00 for the two.

Admissions, United States Air Force Academy, Denver, Colorado. If possible, the request should be made well in advance of the testing date.

The College Board Tests on April 4 will be given only at a selected number of Air Force examining centers. This means that a candidate might be scheduled to take the tests at a center which is a considerable distance from his home. Therefore, each candidate should take the tests on March 14, if at all possible. If a candidate has taken the College Board Tests previous to March 14, the scores he achieved will be accepted by the Academy. However, each candidate is urged to take the tests again in an effort to improve upon earlier scores.

The fee for College Board Tests will be paid by the Department of the Air Force, provided the tests are taken on March 14 or April 4, 1959. Besides the required aptitude and achievement tests, the fee provides for one optional achievement test which the candidate may select from those offered by the College Board. Although it is not required, a candidate is encouraged to take the optional test.

Air Force Medical Examination for Flying Training

Candidates who achieve qualifying test scores will be scheduled late in April 1959 to take the Air Force Medical Examination for Flying Training (Class I) at an Air Force installation. The medical examination will normally be completed in one or two days.

The physical standards in this examination fulfill the pilot training requirements of the Air Force. An Academy graduate will be required to enter pilot training following graduation, provided he can still meet these standards. In general, the physical requirements a candidate must possess to pass the medical examination are as follows:

1. Excellent vision, meaning 20/20 vision without glasses, good color perception, muscular balance, and no chronic disease of the eyes.
2. Height not less than 5 feet 4 inches and not more than 6 feet 4 inches, with sitting height not greater than 38 inches, and weight in normal relation to stature.
3. No bodily defects or chronic or recurrent diseases which could interfere with normal health or performance of flight duties.

Common medical reasons for disqualification of Air Force Academy

candidates are shown in the appendix of this catalog. Medical requirements for candidates are subject to revision to meet changing needs of the Air Force.

Preliminary Medical Examination

Preliminary medical examinations are given to Air Force Academy applicants at Army, Navy, and Air Force installations. However, an applicant should take the examination at an Air Force facility if possible. All prospective candidates are advised to take a preliminary medical for these reasons:

1. The examination might reveal a disqualifying physical defect which could be corrected in time to qualify on the Air Force Medical Examination for Flying Training.
2. The examination might show that an applicant is definitely physically disqualified. Knowing this in advance would save him the time of taking the entrance examinations and the final medical, while his early withdrawal might enable another applicant to receive a nomination.

In order to take a preliminary medical at a military installation, an applicant must first obtain a letter of authorization. Before deciding upon their nominations, many Members of Congress send an authorization to their prospective nominees requiring that they undergo the preliminary medical. Those who do not receive an authorization may request it by writing to their Senator or Representative. Applicants from the District of Columbia or from areas outside of the United States should contact their nominating authority.

Applicants in the Regular and Reserve component categories will be required to take a preliminary medical and will receive the authorization from their unit commander.

Applicants in the other service-connected categories will also be required to take a preliminary medical and will receive the authorization from the Director of Admissions when their candidate eligibility has been determined.

An applicant is advised to take the examination at the nearest military installation, preferably an Air Force facility, and to arrange for an appointment in advance by contacting the surgeon's office at the installation hospital.

A preliminary medical examination is for the information and guid-

ance of the candidate and his nominating authority only. The examination results do not obligate the Department of the Air Force to accept a candidate, if later he is found to have a disqualifying physical defect on the final medical examination.

Advanced Placement Examinations

Cadets who have taken College Entrance Examination Board Advanced Placement Tests prior to entering the Academy may submit their scores for consideration in validating general education courses at the Academy. Validation entitles cadets to substitute elective studies for prescribed courses in which they have demonstrated proficiency. Academy professors will consider the advanced placement test scores and determine whether credit will be awarded.

The general education departments conduct validation examinations soon after a new class enters the Academy. However, a prospective candidate may desire to take the advanced placement tests in an effort to achieve acceptable scores in lieu of the Academy examinations.

The advanced placement tests are administered in May of each year at College Board examining centers throughout the country. Registration in advance, including the payment of fee, is necessary. Information on registration procedures, fees, testing dates, and examining centers is contained in the bulletin, *Advanced Placement Examinations*, available without charge. This bulletin may be obtained by writing to College Board Advanced Placement Examinations at one of the following addresses: Box 592, Princeton, N.J., or Box 27896, Los Angeles 27, Calif.

Preparation Guide for Candidates

Time of Application

The majority of young men admitted to the Air Force Academy enter immediately after graduation from high school. Between June and January of their senior year in high school, they apply for a nomination to enter the Academy late in June following graduation.

Those who feel that they need additional academic preparation after high school, or who were unable to obtain an appointment immediately upon graduation, are encouraged to attend a civilian college or university while waiting to try for a subsequent class. Since there are

many fine institutions of higher learning throughout the country, the Academy does not attempt to recommend specific schools to those who wish to prepare for the Academy.

College credits are not transferable to the Air Force Academy. Each cadet must enter as a Fourth Classman (Freshman) and spend four years at the Academy. However, a cadet who has attended college may be exempt from taking certain courses for which he has received credit at another institution, provided he can qualify on appropriate validation examinations. He must then choose electives to substitute for the prescribed courses he is authorized to omit.

Academic Preparation

The Air Force Academy entrance examinations measure a candidate's potential for success in the Academy General Education Program of liberal arts and science studies. For adequate academic preparation in high school, a young man should definitely take the following subjects and strive for better than average marks in his class work:

English — 4 units

American History — 1 unit

Intermediate Mathematics — 3 units (Studies should include basic algebraic, geometric, and trigonometric concepts and related skills.)

The remainder of his high school program may be chosen from the following subjects to provide further advantage in the entrance examinations and the Academy General Education Program:

Advanced Mathematics

General Science

Chemistry

Physics

Mechanical Drawing

Aeronautics

Astronomy

Economics

American Government

Ancient History

Modern European History

World History

Geography

Foreign Languages

Psychology

Philosophy

Public Speaking

Typing

A person who attends college before entering the Academy should concentrate on the same or related courses on the college level.

The Academy does not require specific school courses, credits or grades for entrance. A candidate does not have to be a high school

graduate to gain admittance. In most cases, however, one who has completed or is studying the above courses will stand a better chance of succeeding on the entrance examinations.

Airmanship Preparation

The entrance examinations measure a candidate's motivation and aptitude for the Academy Military Airmanship Program of flying training, physical education, and military studies. A prospective candidate may prepare for this phase in a general way, rather than by following a specific course plan.

1. He should maintain a high degree of physical fitness by taking proper care of his health and by participating in sports.
2. He should engage in school extracurricular activities to develop leadership skills.
3. He should gain a background in aviation by reading pertinent books and periodicals of a general nature. In order to enhance his knowledge of aviation, he may participate in the Civil Air Patrol or other organizations devoted to the study of flight.

High School Evaluation

Candidates considered on a competitive basis for a cadet appointment will be evaluated on their high school academic achievement and leadership potential. Academic achievement is evaluated in terms of overall standing in class, as well as the recommendations of school principals and teachers. Active participation and distinction in extracurricular activities serve as the principal criteria for evaluation of leadership potential. Some examples of leadership in extracurricular activities are as follows:

1. Presiding officers of classes, clubs or student governments.
2. Athletic participation and achievement.
3. Meritorious awards in athletic or non-athletic activities.
4. Attaining Eagle Scout rank.
5. Officer rank in the Reserve Officer Training Corps.
6. Managerial offices such as manager or editor of a school paper.
7. Participation in public speaking activities.
8. Participation and achievement in the Civil Air Patrol.

Preparatory Training for Servicemen

Scope

Air Force Academy preparatory training is designed exclusively for servicemen who are on extended active duty with one of the Armed Forces. (Airmen who are serving six-month active duty tours are not eligible.) The schools now being used for this purpose are the Naval Academy Preparatory School at Bainbridge Naval Training Station, Maryland, and the Military Academy Preparatory School at Fort Belvoir, Virginia. A total of 200 Air Force Academy candidates on extended active duty may be selected to attend these schools. Classes begin in September 1958 and close in May 1959.

Purpose

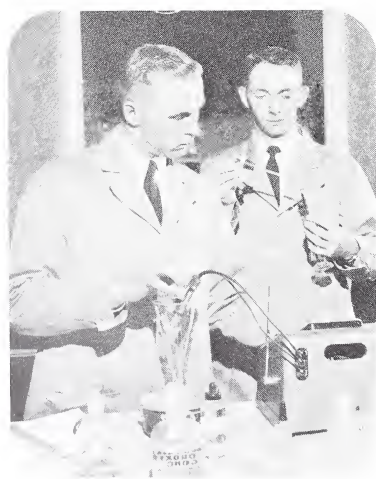
Preparatory training includes academic, physical, and military instruction. This training gives the serviceman an opportunity to prepare for the entrance examinations on an equal basis with a civilian candidate who is still in high school or has recently been graduated. It also prepares the serviceman for the Academy Curriculum of general education and military airmanship courses.

Application

A request for preparatory training should be made in conjunction with an application for nomination to the Academy. The applicant's unit commander must indicate on his indorsement of an Academy application that preparatory training is also desired. Details of eligibility and application procedures are outlined in Air Force Regulation 53-14, "Air Force Academy Preparatory Training," dated August 15, 1957. A request for preparatory training should be submitted as soon as possible after March 1, 1958. The application period closes on July 31, 1958.

Selection

The Air Force Academy selects students to attend the preparatory schools. Selection is based on high school academic background, athletic and non-athletic extracurricular activities, and recommendations of teachers and commanding officers, as well as the Air Force Cadet Screening Test and the Air Force Medical Examination for Flying Training. Selection for preparatory training does not guarantee the student of acceptance to the Air Force Academy.



the academy curriculum

The Academy Curriculum is composed of the General Education Program, supervised by the Dean of Faculty, and the Military Airmanship Program, supervised by the Commandant of Cadets. The total prescribed curriculum amounts to 166 credit hours, including 140 hours in general education and 26 hours in military airmanship. The academic year is divided into three terms: the fall term from September through December, the spring term from January through May, and the summer term from June through August. A new Fourth Class is admitted to the Academy once each year during the last week in June. Cadets are not admitted at the beginning of the fall or spring terms.

Summary of the Curriculum

(In Credit Hours)

4th Class

	<i>Summer</i>
Military Studies	2-1/6
Flying Training	1/3
Physical Education	1-1/2
	<hr/>
	4

3rd Class

	<i>Summer</i>
Military Studies	1/2
Flying Training	2-1/6
Physical Education	5/6
Biology	1
	<hr/>
	4-1/2

	<i>Fall & Spring</i>		<i>Fall & Spring</i>
Chemistry	6	Physics	12
Mathematics	11	Mathematics	6
History	6	History	6
English	6	Political Science	5
Geography-Cartography	5	Military Studies	5
Flying Training	1	Flying Training	4
Physical Education	1	Physical Education	1/3
	<hr/>		<hr/>
	36		38-1/3

2nd Class

	<i>Summer</i>
Military Studies	1
Flying Training	1
Physical Education	1
Mechanics	2
	<hr/>
	5

1st Class

	<i>Summer</i>
Military Studies	2/3
Flying Training	1/2
Physical Education	1/3
	<hr/>
	1-1/2

	<i>Fall & Spring</i>		<i>Fall & Spring</i>
Mechanics	6	Astronautics	6
Thermodynamics	6	Aerodynamics	6
Electrical Engineering	7-1/3	English-Philosophy	6
English	6	Foreign Languages	10
Economics	5	Law	5
Psychology and Leadership	5	Political Science	5
Flying Training	2-2/3	Physical Education	1/3
Physical Education	1/3		<hr/>
	<hr/>		38-1/3
	38-1/3		

GRAND TOTALS

Fall and Spring Terms	151	General Education	140
Summer Terms	15	Military Airmanship	26
	<hr/>		<hr/>
	166		166

General Education Program

Prescribed Courses

The General Education Program provides four years of undergraduate study leading to a Bachelor of Science degree. The purpose of the program is to furnish each cadet with a broad, balanced education in liberal arts, science, and engineering studies. With this well-rounded educational background, an Academy graduate should be prepared to deal successfully with a diversity of intellectual problems he will encounter as an Air Force officer.

The general education portion of the prescribed curriculum is composed of 70 credit hours in basic and applied science courses and 70 credit hours in social science and humanities courses. Each cadet must successfully complete the prescribed courses or, on the other hand, successfully complete special courses which may be substituted for the prescribed.

In the General Education Program, cadets are grouped according to their grade standings into small classes of approximately twelve to sixteen each. The small group-teaching situation contributes to maximum learning effectiveness. Cadets are graded frequently so that their progress may be carefully evaluated, and additional instruction is provided for those who need it.

Special Courses

A Curriculum Enrichment Program has been developed at the Air Force Academy to offer learning experiences beyond the prescribed Academy Curriculum and to allow for individual differences in the ability of students to progress in their studies. The enrichment program, as it applies to the general education phase of the curriculum, permits the cadet to take special courses as substitutes or additions to those that are prescribed. It enables the cadet to concentrate in a subject area or to broaden his understanding by taking extra courses in several areas. The following means are provided for participation in the enrichment program:

1. *Validation.* A cadet who demonstrates proficiency in a prescribed course by passing a validation examination is exempt from taking this course and receives credit for it. He must substitute another prescribed course or a special course, since he is required to carry approximately the same credit-hour load as his classmates. A cadet

who has taken the College Entrance Examination Board Advanced Placement Examinations may submit his scores for consideration in lieu of validation examinations administered at the Academy. Full details are presented in the Admissions portion of the catalog under Advanced Placement Examinations.

2. *Acceleration.* A cadet who shows special aptitude in a prescribed course, within a short time after the course begins, may be permitted to complete the required work at an accelerated pace and progress to more advanced phases of the subject. Extra credit is awarded for acceleration in a course.

3. *Overload.* A cadet who has achieved a grade of 74 percent or more in each prescribed course taken during the previous term may be permitted to take special courses above the prescribed load. Permission of the appropriate department head is required to enroll in any course, and permission of the Dean of Faculty is required for an overload of more than three credit hours.

Major Subjects

The completion of prescribed general education courses entitles the cadet to a Bachelor of Science degree without a major. The prescribed plan, encompassing a wide range of subject matter, does not give sufficient credit hours in one area of study to fulfill requirements for a major. A cadet who takes special courses, however, may gain the additional credit for a major by concentrating his electives. It is possible to obtain a major in Public Affairs, Missile Technology, or English by taking seventeen selected credit hours above the prescribed load. A major in Engineering is offered to the cadet who is able to complete thirty-two selected credit hours above the prescribed load. A cadet who completes a major program will receive a notation to that effect on his diploma.

It is anticipated that a number of Academy graduates will be selected by the Air Force for graduate study at colleges or universities early in their careers as Air Force officers. A cadet who has completed the requirements for a major at the Academy may receive an advanced degree in a shorter period of time than one who does not have a major and may be required to take additional credit hours before entering graduate classes. However, it is not necessary for a cadet to choose a major to take part in the enrichment program. He

may desire to broaden his knowledge by taking any course or courses offered in addition to the prescribed Academy Curriculum.

Course Listings

In the course listings that follow, prescribed and special courses are shown by divisions and departments. Courses in the 100 series are designed for the Fourth (Freshman) Class level; the 200 series for the Third (Sophomore) Class level; the 300 series for the Second (Junior) Class level; and the 400 series for the First (Senior) Class level. A cadet may take special courses above the level of his class. The prescribed course plan is subject to further development to coincide with the needs of the Air Force. The enrichment program may be modified through addition or deletion of special courses according to the interests and capabilities of the students, the availability of instructors, and the needs of the Air Force.

One credit hour is generally computed on the basis of 150 minutes of student effort each week during a term, which is the total of 60 minutes in the classroom and 90 minutes of outside preparation. Credit for some special courses may be extended for cadets who undertake additional work. A cadet must remain at the Academy for four years in order to receive a degree, no matter how many credit hours he may accumulate through the enrichment plan of validation, acceleration or overload.

Faculty Listings

The faculty is composed of Air Force officers who possess the educational and experience qualifications for their assignments. The normal tour of duty for an Academy instructor is four years. However, there are twenty-one key faculty positions authorized to be occupied by professors with tenure.

In the course listings that follow by divisions and departments, each faculty member is listed by last name and duty assignment. A directory of the faculty with complete names, duty assignments, and degrees held is located in the appendix of the catalog. The faculty listings include only those who are assigned or who were on orders for assignment to the Academy during the 1958 spring term. Additional faculty members will be assigned as the size of the Cadet Wing increases.

Office of the Dean of Faculty

Dean of Faculty: Colonel McDermott

Assistant to the Dean: Lt. Colonel Ferrari

Director of Library: Lt. Colonel Fagan

Director of Academic Counseling: Lt. Colonel Ofiesh

Faculty Executive Officer: Major Malanga

Director of Audio-Visual Services: Captain Oram

Director of Academic Supply: Captain Modica

Division of Basic Sciences

Division Chairman: Colonel Ault

The Division of Basic Sciences offers courses in mathematics, chemistry, and physics. A course in human biology is offered by the Academy Surgeon. The cadet performs scientific applications which illustrate the overall value of science in the modern world and the specific value of science to the future of an Air Force officer. Laboratory work develops the scientific method of obtaining results through accurate observation, critical thinking, and logical reasoning. Thirty-six and two-thirds credit hours in basic sciences are included in the prescribed Academy Curriculum. Prescribed courses must either be completed or validated through examinations. Eligibility for enrollment in special courses is explained in the General Education Program summary.

Department of Chemistry

Professor and Head of Department: Colonel Woodyard

Associate Professors: Lt. Colonels Rowden, Yucker

Assistant Professors: Lt. Colonel Howard; Captains Anderson, Taylor; 1st Lieutenant Lamb

Instructor: Lt. Colonel Kee

Prescribed Courses

Chemistry 101-102. General Chemistry

Kinetic-molecular theory, periodic law, properties of solutions, chemical formulas, acid-base theory, chemical reactions, chemical equilibria, the concept of equivalent weights and the combining capacity of the elements. An introduction to the fields of organic, nuclear, and analytical chemistry.

6 Credit Hours

Special Courses

Chemistry 204-205. Analytical Chemistry

May replace Chemistry 101-102. Atomic structure; chemical bonding; ionic equilibria; solubility product constant, pH; acid-base theory; oxidation-reduction theory; volumetric, gravimetric, qualitative and instrumental analysis; analysis of data. Prerequisites: Chemistry 101-102 or equivalent.

6 Credit Hours

Chemistry 304-305. Introductory Physical Chemistry

May replace Chemistry 101-102. Atomic and molecular structure, states of matter, chemical thermodynamics, chemical kinetics. Prerequisites: Chemistry 101-102, Mathematics 101-102, or equivalents.

6 Credit Hours

Department of Mathematics

Professor and Head of Department: Colonel Ault

Associate Professors: Lt. Colonels Elrick, Hempstead, Querry

Assistant Professors: Major MacWherter; Captains Banister, Clement, Landers, Milliken, Young

Instructors: Captains Gall, Johnson, Johnston, King, Marsh, Prince, Slizeski, Smith, Stevenson, Vegna

Prescribed Courses

Mathematics 101. College Algebra and Plane Trigonometry

Mathematical processes and practical applications in the fundamentals of college algebra, plane trigonometry, statistics, and use of the slide rule.

5½ Credit Hours

Mathematics 102. Analytic Geometry and Introduction to Calculus

Mathematical processes and practical applications in the fundamentals of spherical trigonometry, plane and solid analytic geometry, and differential and integral calculus for simple functions.

5½ Credit Hours

Mathematics 201-202. Calculus and Introduction to Differential Equations

A continuation of Mathematics 102. Differential and integral calculus of algebraic and transcendental functions, infinite series, partial differentiation, multiple integration, and an introduction to differential equations.

6 Credit Hours

Special Courses

Mathematics 104. Statistics

Fundamentals of descriptive and inductive statistics including graphs, measures of central tendencies, variation, symmetry, theoretical distributions, probability, sampling, prediction and correlation of qualitative data with applications to operations and systems analysis, quality control, and business. Prerequisite: Mathematics 101 or equivalent.

2 Credit Hours

Mathematics 106. Vector Algebra

Introduction to vector algebra including vector notation, algebraic manipulations of vector quantities, and an insight into how an algebraic system is developed. Prerequisite: Mathematics 101 or equivalent.

1 Credit Hour

Mathematics 204. Differential Equations

A continuation of differential equations beyond areas covered in Mathematics 201-202. Prerequisite: Mathematics 202.

2 Credit Hours

Mathematics 304-305. Advanced Calculus

Selected topics from advanced calculus. Introduction to vector calculus, Fourier series, Laplace transforms, and complex variable. Prerequisite: Mathematics 204.

4 Credit Hours

Mathematics 306. Introduction to Machine Computation

The theory and use of digital computers. Prerequisite: permission of the department.

2 Credit Hours

Department of Physics

Professor and Head of Department: Lt. Colonel Robertson

Associate Professors: Lt. Colonel Neuer; Major Stebbins

Assistant Professors: Lt. Colonel Stephens; Majors Avery, Shwiller

Instructors: Lt. Colonel Bowen; Captains Kaericher, Walsh

Prescribed Courses

Physics 201. Basic Physics

Fundamental principles of mechanics, heat, and electricity.

6 Credit Hours

Physics 202. Basic Physics

Fundamental principles of magnetism, sound, and light. Brief introduction to modern physics, nuclear physics, and special weapons.

6 Credit Hours

*Special Courses**Physics 305. Modern Physics*

Selected topics necessary to understanding the extra-nuclear structure of the atom. Includes the fundamental particles of matter and a brief introduction to the special theory of relativity. Prerequisites: Physics 201-202.

2 Credit Hours

Physics 306. Nuclear Physics

Selected topics necessary to understanding the nuclear structure of the atom. Includes nucleons, particle accelerators, and nuclear reactions. Prerequisites: Physics 201-202, Physics 305, or permission of the department.

2 Credit Hours

Physics 404. Neutron Physics

Selected topics necessary to understanding the fission and fusion processes. Includes the diffusion properties of neutrons and their applications in reactor design. Material covered is related to design requirements for nuclear weapons. Prerequisite: Physics 306.

2 Credit Hours

In addition to courses taught by the basic science departments, the following basic science course is conducted by the Academy Surgeon.

Academy Surgeon: Colonel Browning

*Prescribed Course**Biology 200. Human Biology*

The human body and its mechanisms; disease and disability; public health measures and their particular application to the Air Force; aviation physiology and the problems of survival in space.

1½ Credit Hours

Division of Applied Sciences

Division Chairman: Colonel Higdon

The Division of Applied Sciences offers courses in aerodynamics, astronautics, electrical engineering, mechanics, and thermodynamics.

These engineering sciences are important in preparation for Air Force career fields in manned aircraft or guided missiles. Emphasis is placed on Air Force applications to give the cadet a basic knowledge of modern weapon systems and the problems associated with their complexities. In laboratory work the cadet enhances his ability to apply the scientific method to the solution of problems and the evaluation of experiments. Thirty-three and one-third credit hours in the applied sciences are included in the prescribed Academy Curriculum. Prescribed courses must either be completed or validated through examinations. Eligibility for enrollment in special courses is explained in the General Education Program summary.

Department of Aerodynamics

Professor and Head of Department: Colonel Clementson

Associate Professor: Major Polve

Assistant Professors: Lt. Colonel Morehouse; Major Goppert

Instructors: Captains Anderson, Bretting

Prescribed Courses

Aerodynamics 401. Basic Aerodynamics

Fundamental concepts of analyzing subsonic and supersonic air flow. Includes air foil theory and wing theory.

3 Credit Hours

Aerodynamics 402. Applied Aerodynamics

Power required and power available curves; longitudinal and lateral static stability; control forces and hinge moments of several configurations; drag estimation and the theory of lift.

3 Credit Hours

Special Courses

Students who desire additional instruction in aerodynamics may substitute the special course sequence of Aerodynamics 411, 412, 413, 414, and 415 for Aerodynamics 401 and 402.

Aerodynamics 411. Fluid Mechanics

Fundamental concepts of describing and analyzing the flow of fluids about an immersed body. Includes the flow of incompressible and compressible fluids in pipes, the theory of dimensional analysis and similitude, and an introduction to boundary layer theories of laminar and turbulent viscous flow.

2½ Credit Hours

Special Courses

Electrical Engineering 401-402. Servomechanisms

An introduction to basic techniques of servomechanism analysis. Application of Laplace transforms together with signal flow diagrams to represent linear differential equations. Methods of determining system stability and response, an evaluation of complete servo systems, and the effects of viscous damping and compensating networks. Prerequisites: Mathematics 204-304, Electrical Engineering 301-302.

4 Credit Hours

Electrical Engineering 404-405. Fundamental Radar System Design Considerations

Provides an understanding of problems facing the radar engineer. An analysis of the parameters of the radar range equation; the function of each component in a typical radar system; a study of some of the most critical components of the system such as automatic tracking, wave-shaping, and pulse-forming networks. Prerequisites: Mathematics 204-304, Electrical Engineering 301-302.

4 Credit Hours

Electrical Engineering 407-408. Analog Computer Techniques

Analog computer techniques as applied to the solution of differential equations arising in engineering problems. Topics include electronic computing circuits, scale factors, and time scales. Emphasis upon use of equipment in the solution of typical problems. Prerequisites: Mathematics 204-304, Electrical Engineering 301-302.

4 Credit Hours

Department of Mechanics

Professor and Head of Department: Colonel Higdon

Associate Professor: Major Valpey

Assistant Professors: Major Barricklow; Captains Marvin, Quanbeck

Instructors: Lt. Colonel Babits; Captains Bonanno, Pospisil, Riedel

Prescribed Courses

Mechanics 300. Basic Engineering Drawing

Develops ability to read and understand technical drawings and to visualize objects in space. Includes freehand sketching, oblique and isometric drawing, orthographic projection, descriptive geometry, intersections and developments, sections, conventions, dimensioning,

fasteners, aircraft working drawings, and construction of charts and graphs.

2 Credit Hours

Mechanics 301-302. Engineering Mechanics

The principles of statics, dynamics, mechanics of materials, and materials testing laboratory.

6 Credit Hours

Special Courses

Mechanics 304. Properties of Engineering Materials

Properties of engineering materials oriented toward the special problems of materials used in manufacturing aircraft and missiles. Prerequisites: Mechanics 301-302 or 313.

1½-3 Credit Hours

Mechanics 305. Advanced Strength of Materials

Additional topics in mechanics of materials and materials testing laboratory pertaining to aircraft structures. Prerequisite: Mechanics 302 or 313.

2 Credit Hours

Mechanics 306-307. Elementary Aircraft Structures

Basic principles for the design of aircraft structural members. Prerequisite: Mechanics 305.

4 Credit Hours

Mechanics 308. Advanced Engineering Drawing

The practical application of graphics in problem solving with emphasis on descriptive geometry and its applications. Includes basic design work; the layout of airfoils, fuselage, and wing tips; problems in perspective drawing. Prerequisite: Mechanics 300.

2 Credit Hours

Mechanics 311, 312, and 313 may replace 301-302 for cadets concentrating in engineering.

Mechanics 311. Statics

The principles of statics.

2-3 Credit Hours

Mechanics 312. Dynamics

The principles of dynamics. Prerequisite: Mechanics 311.

2-3 Credit Hours

Mechanics 313. Mechanics of Materials

Elementary mechanics of materials including basic laboratory exercises. Prerequisite: Mechanics 312.

2-3 Credit Hours

Mechanics 314. Materials Testing Laboratory

Research testing and acceptance testing of metallic and non-metallic materials used in Air Force construction. Prerequisite: Mechanics 313 or 302.

1-2 Credit Hours

Department of Thermodynamics

Professor and Head of Department: Colonel Dane

Associate Professor: Lt. Colonel Rex

Assistant Professors: Major Fuchs, Lopez

Prescribed Courses***Thermodynamics 301. Fundamental Thermodynamics***

Classical thermodynamics treating the various phenomena of energy, with particular reference to laws which govern the transformation of heat into useful work and power.

3 Credit Hours

Thermodynamics 302. Thermodynamic Principles

Thermodynamic principles as they apply to air conditioning, refrigeration, and power plants, with emphasis on gas turbines and rocket motors used in aircraft and weapons. An introduction to heat transfer.

3 Credit Hours

Special Courses***Thermodynamics 304. Applied Thermodynamics***

May replace Thermodynamics 302. Includes additional applications of the same topics treated in Thermodynamics 302. Prerequisite: Thermodynamics 301.

4 Credit Hours

Thermodynamics 404. Introduction to Heat Transfer

Basic phenomena of energy transport by conduction, convection, and radiation heat transfer in solids and viscous fluids. Special problems involving heat transfer such as rocket motor design, aerodynamic heating, and heat exchangers.

3 Credit Hours

Thermodynamics 405. Aircraft Gas Turbines

Problems associated with fluid flow, blading, stresses, combustion, and matching. Performance characteristics for both design and off-design conditions including transient and steady-state cases. Prerequisite: Thermodynamics 301.

3 Credit Hours

Thermodynamics 406. Elements of Rocket Propulsion

Rocket motors, nozzle theory, heat transfer, thrust chambers, liquid and solid propellants, performance and testing. Prerequisite: Thermodynamics 301.

3 Credit Hours

Thermodynamics 407. Aircraft Propulsion

Momentum theorem; one dimensional thrust equation as applied to turbojets, turboprops, ramjets, and rockets; cycle analysis for various propulsive ducts; estimated performance charts. Prerequisite: Thermodynamics 301.

3 Credit Hours

Division of Humanities

Division Chairman: Colonel Moody

The Division of Humanities offers courses in English, philosophy, history, and foreign languages. Through these studies the cadet develops the skills of speaking and writing effective English, attains facility in speaking a foreign language, acquires a knowledge of Western heritage and contemporary world civilization, and develops the techniques for thinking clearly and making sound judgments. The studies are presented in connection with the cadet's future responsibilities of leadership in the Air Force. Forty credit hours in the humanities are included in the prescribed Academy Curriculum. Prescribed courses must either be completed or validated through examinations. Eligibility for enrollment in special courses is explained in the General Education Program summary.

Department of English

Professor and Head of Department: Colonel Moody

Associate Professors of English: Lt. Colonels Jackson, Linn, Patton, Thompson; Major Richter; Captain Weese

Assistant Professors of English: Majors Carpenter, Cox, Galt; Captains Clark, Parsons

Instructors in English: Major Barnett; Captains Alm, Gatlin, Miner, Pearsall, Weaver; 1st Lieutenants Hand, Kelly, Rule, Zink; 2nd Lieutenant Pierce

Associate Professor of Philosophy: Lt. Colonel Sullivan

Assistant Professors of Philosophy: Major Albright, Captain Brockway

Instructors in Philosophy: Captain Thelander; 1st Lieutenant Schlight

Prescribed Courses

English 101-102. Composition, Speech, and Introduction to Literature

Writing, speaking, group conference, and an introduction to literature. Major emphasis upon development of a clear, forceful prose style. The cadet writes a number of themes and one research paper; presents speeches of varying length; participates in several conferences; plans and leads a conference; reads and analyzes a play and several short stories and poems.

6 Credit Hours

English 301-302. Western Literature from Homer through the Eighteenth Century

Reading and analyzing some of the masterworks of Western literature dating from the period of Homer through the eighteenth century. Among the major writers studied are Homer, Aeschylus, Sophocles, Aristophanes, Chaucer, Shakespeare, Donne, Milton, and Voltaire. Eight essays and four speeches are required.

6 Credit Hours

English 401. Western Literature of the Nineteenth and Twentieth Centuries

Reading and analyzing some of the masterworks of Western literature from the beginning of the nineteenth century to the present. Among the major writers studied are Keats, Flaubert, Browning, Dostoyevsky, Ibsen, Giraudoux, Eliot, Frost, Hemingway, and Faulkner. Six essays and four speeches are required.

3 Credit Hours

Philosophy 402. Introduction to Individual and Social Values

Principles of conduct and their application to the individual and

society. Assessment of contemporary value problems such as the conflict between democratic and totalitarian values, the function of reason and faith in acceptance of values, and the difference between value problems and purely scientific considerations. Illustrative situations are derived principally from literature and military life.

3 Credit Hours

Special Courses

In addition to the following special courses, period and genre courses and tutorials designed for individual cadets are offered to those majoring in English.

English 105. Advanced Composition and Speech

The research paper, semantics, conference techniques, and public speaking. (Cadets who have successfully completed freshman English at some other institution or who demonstrate exceptional ability in English may substitute this course for English 101-102.)

3 Credit Hours

English 106. Contemporary Literature

Contemporary literature classified and studied by types. (Cadets who have successfully completed English 105 may substitute this course for English 401.)

3 Credit Hours

English 203. Public Speaking

Informative and persuasive speaking. Approximately fourteen speeches, five to fifteen minutes in length, are required. Prerequisites: English 101-102 or equivalent.

3 Credit Hours

English 205-206.—Survey of English Literature

Provides a general background in English literature, with concentration on authors and works not included in English 301-302 and 401. Prerequisites: English 101-102 or equivalent.

6 Credit Hours

English 405-406. Introduction to the Fine Arts

Provides the bases for an understanding and appreciation of painting, sculpture, architecture, and music. Relationships between the arts and literature of a given period are examined; attention is focused upon artistic expression as an artist's reaction to his environment. Reports and research papers are required. Prerequisites: English 101-102, 301-302, or equivalents.

6 Credit Hours

Philosophy 114. Logic

Development of effective, critical thinking through the study of deduction and induction techniques. An analysis of the ways in which emotional, prejudicial, and cultural forces create fallacious thought patterns.

2½ Credit Hours

Department of History

Professor and Head of Department: Lt. Colonel Sala

Associate Professors: Lt. Colonels Molyneaux, Meacham, Ruenheck; Majors Braden, Hitchens, Kirkpatrick, Moody; Captain Morrisey

Assistant Professors: Lt. Colonel Sutton; Majors Schlögl, Williams

Instructors: Lt. Colonel Kutger; Captains Eaton, Richardson, Shultz; 1st Lieutenants Gay, Studabaker

Prescribed Courses*History 101. Western Civilization*

Historical development of Western civilization from ancient times to 1900. Emphasizes the cultural elements and power structures of European civilization and provides a background for social sciences and humanities studies.

3 Credit Hours

History 102. History of the United States to 1900

American history survey from the colonial era to 1900, covering political, social, economic, cultural, and diplomatic developments. Stresses growth of American democratic ideas and institutions.

3 Credit Hours

History 201. Recent World History

Leading historical issues since 1900, with emphasis on international and internal forces which have tended to produce power blocs. Analyzes the causes of international tension and illustrates the common cultural and material interests which bind together the Atlantic Community.

3 Credit Hours

History 202. Military History

The scope and complexity of war. Includes the historical development of military principles, theory, trends, strategy, doctrine, weapons, organization, logistics, and tactics; military personalities and civil-

military relations. Emphasis upon the major wars of the twentieth century during which aerial warfare emerged.

3 Credit Hours

Special Courses

2½ Credit Hours may be extended to 3 Credit Hours for cadets who undertake special projects.

History 214. History of Russia

Survey of the political and social development of the Russian nation. Emphasizes the Bolshevik Revolution, the subsequent history of the Communist State, and Soviet foreign relations since World War II.

2½ Credit Hours

History 215. History of the Middle East

Politico-social survey of developments in the Middle East, particularly during the twentieth century. Emphasizes the strategic importance of the Middle East in the present world struggle.

2½ Credit Hours

History 314. United States Diplomatic History

Survey of American diplomatic history from the Revolution to the present. Stresses the evolution of fundamental foreign policies such as the Monroe Doctrine, Open Door, Freedom of the Seas, and Pan-Americanism.

2½ Credit Hours

History 315. History of Latin America

The discovery, conquest, and growth of Spanish and Portuguese America. Emphasizes political, social, economic, and cultural institutions since the Wars of Independence.

2½ Credit Hours

History 499. Advanced Readings in History

Development of an extensive knowledge of historical literature and methodology through study of selected materials. An intensive analysis of pertinent historical literature is offered to cadets who demonstrate interest in a particular era or phase. Enrollment is limited to cadets who have a genuine interest in history and who satisfy the Professor of History that they can assimilate advanced materials.

3 Credit Hours

Department of Foreign Languages

Professor and Head of Department: Colonel Holcomb

Assistant Professor: Captain Jackson

Prescribed Courses

During his First Class year each cadet will be required to take one foreign language: French, Spanish or Russian.

Foreign Language 401. French, Spanish or Russian

Basic sounds and sentence patterns of the language. Formal grammar is not taught *per se* but only insofar as it aids in comprehension of the spoken language.

5 Credit Hours

Foreign Language 402. French, Spanish or Russian

Conversation in the language. Audio-visual aids assist in acquiring accurate pronunciation and satisfactory aural comprehension. Simple prose readings selected from contemporary material provide an insight into the culture and thought of the foreign country.

5 Credit Hours

Division of Social Sciences

Division Chairman: Colonel Munch

The Division of Social Sciences offers courses in economics, political science, law, geography, and cartography. The peoples, institutions, cultures, and environments of the world are presented to the cadet, with emphasis on his understanding the foreign nations in which he may live or have association as an Air Force officer. American ideals and heritages and the nation's contemporary defense policy and foreign policy are studied in connection with his future responsibilities. The courses are equally aimed toward preparing the cadet to become an enlightened, informed citizen. Twenty-five credit hours in social sciences are included in the prescribed Academy Curriculum. Prescribed courses must either be completed or validated through examinations. Eligibility for enrollment in special courses is explained in the General Education Program summary.

Department of Economics

Professor and Head of Department: Colonel McDermott

Associate Professor: Major Manes

Assistant Professors: Major Black; Captains Duvall, Rippey; 1st Lieutenant Ballantyne

Prescribed Courses

Economics 301-302. Economic Principles and Problems

Fundamental economic principles applicable to the organization and functioning of society. Development of an intelligent interest in problems of public policy through the study of significant economic issues. Includes an analysis of modern capitalism, its problems, and its alternatives; the impact of national security programs on the economy; the effect of continuing international tension on the validity of economic principles as they apply to the United States economy; the extent to which these conditions limit the choice of alternative solutions to economic problems and affect the costs of available solutions.

5 Credit Hours

Special Courses

Economics 307. Introduction to Investments

Survey of investment principles and practices. Includes security analysis with the objective of developing techniques and standards of investment appraisal; the forecasting problem pertaining to meeting individual portfolio needs including insurance requirements. Special studies develop the capacity for financial research and the preparation of investment reports. Prerequisites: Economics 301-302 or equivalent.

2 Credit Hours

Economics 308. Comparative Economic Systems

Communism in the Soviet Union, Red China, and Yugoslavia; British socialism; fascism. A thorough investigation of the economic aspects of each system; a survey of their social, cultural, and psychological features. Prerequisites: Economics 301-302 or equivalent.

2½ Credit Hours

Department of Geography

Professor and Head of Department: Lt. Colonel Baxter

Associate Professors of Geography: Lt. Colonels Ramsaur, Terry

Assistant Professors of Geography: Lt. Colonel Hereford; Captain Acker

Associate Professors of Cartography: Major Taylor; Captain Coffey
Assistant Professors of Cartography: Captains Browne, Woods
Instructors in Cartography: Captain Smith; 1st Lieutenant Englehart

Cartography 101. Elements of Cartography

Provides knowledge of methods used to establish survey control for the preparation of reliable maps and charts. Includes position referencing systems, principles of photo interpretation and stereoscopy, and fundamentals of the photogrammetric processes used to compile military charts and maps.

2 Credit Hours

Geography 102. World Geography

The factors of world geography. Includes the reasons for progress in some areas and the lack of progress in others; the physical and cultural elements of the human environment in their areal and national groupings. Emphasizes the present and future influences of geography on airpower and national security.

3 Credit Hours

Department of Law

Professor and Head of Department: Colonel Munch

Associate Professor: Lt. Colonel Vague

Instructors: Majors Fedele, Reynolds, Simon

Prescribed Courses

Law 401-402. An Introduction to Law

A survey of important precepts in the fields of elementary law, criminal evidence, and the international law affecting armed forces abroad. An introduction to the subject of the law, its terminology, and its function as a stable, flexible element of social order and military command. The relationship of law to personal and official affairs of members of the Air Force and society in general.

5 Credit Hours

Special Courses

Law 405. American Constitutional Law

The historical background and case progress of American constitutional doctrine. Presents the judicial power as one of the moving forces in American economic, social, and political progress. Analyzes the legal theory of government, including the doctrine of separation

of powers; the division of powers within the federal system; and the constitutional guarantees of equal protection under the laws, due process, and freedom of speech, press, assembly, and religion.

2½ Credit Hours

Law 406. International Law and Organizations

The origins and evolution of international law and organized international collaboration. A foundation in the principles of international law, including territorial and aerial concepts and functions of states and individuals within the international legal system. The efforts of nations to foster international collaboration and to control power politics by legal rules and general and specialized international organizations. (This course is taught jointly by the Departments of Law and Political Science.)

3 Credit Hours

Department of Political Science

Professor and Head of Department: Lt. Colonel Posvar

Associate Professors: Major Griffith; Captains Boyne, McGurk

Assistant Professors: Major Carley; Captains Bradbury, Whitaker

Prescribed Courses

Political Science 201. American National Government

Development and organization of the national government. Nature, structure, powers, and procedures of legislative, executive, and judicial departments. Principles and basic institutions of the American federal system, the constitution, civil and political rights, and party system.

2½ Credit Hours

Political Science 202. Contemporary Foreign Governments

Emergence of constitutional government and the theory of democracy. An analysis of the political systems, constitutional and legal structures of England, France, Germany, Russia, Japan, and India. An introduction to the diversity of constitutional forms and political forces of these countries.

2½ Credit Hours

Political Science 401. International Relations

Contemporary international relations as revealed by analysis of interstate conflict and cooperation. Introduction to leading theories of

international relations and traditional interpretations of state policy roles and objectives. Major emphasis upon those forces comprising the bases of domestic and international political processes, policy means and ends, and attempts to limit international conflict. Oriented toward United States problems and participation in world affairs.

2½ Credit Hours

Political Science 402. Defense Policy

The relationship of defense policy to national policy and objectives; formulation of defense policy; defense policy and changing weapons; national resources for defense; national and military strategy in the contemporary world.

2½ Credit Hours

Special Courses

Political Science 303. Political Theory

A survey of major trends and issues in political thought. European liberalism, conservatism, utopianism, and socialism; Marxism and communism; anti-democratic thought and totalitarian regimes. Theories of the nature and conditions of democracy; contemporary democratic institutions compared and analyzed; an analysis of modern constitutional democracy.

2½ Credit Hours

Political Science 403. Political Parties

Nature, organization, and operation of the American party system; historical development of parties and issues; relations between national, state, and local organizations, state and national committees; the convention system; the primary; campaign methods and finance; the nature and function of pressure groups.

2½ Credit Hours

Military Airmanship Program

Courses

The purpose of the Military Airmanship Program is to train and motivate the cadet for a career of leadership as an officer in the United States Air Force. This program includes courses in military studies, flying training, and physical education. In addition to formal courses given in these fields, the cadet receives command training and practical leadership experience in the Air Force Cadet Wing. The cadet must complete each of the prescribed courses in the Military Airmanship Program, including those offered for credit and those that give practical training but provide no credit. Special courses and activities are offered through the Curriculum Enrichment Program for cadets who desire to broaden their knowledge or develop additional skills in a subject area. All courses and activities are subject to change or further development to coincide with the needs of the Air Force, the availability of instructors, and the interests and capabilities of the cadets.

Military airmanship courses are closely integrated with general education studies through the application of learning in general subject matter fields to military situations and problems.

Course Listings

Courses in the 100 series are given in the cadet's first year at the Academy, those in the 200 series in his second year, the 300 series in his third year, and the 400 series in his final year. Courses ending in 0 are taught during the summer terms; those ending in 1 and 2 are taught during the fall and spring terms, respectively.

Faculty Listings

Members of the military airmanship faculty have been chosen by their military experience and their particular ability to perform the duty to which they are assigned. Officers in the United States Air Force constitute a majority of the faculty. Officers from the United States Army, Navy, and Marine Corps and from the Royal Air Force, Royal Canadian Air Force, and Royal Australian Air Force serve on the faculty in a liaison capacity.

Faculty members are shown by last name and duty assignment in the following course listings. A directory of the faculty with complete

names, duty assignments, and degrees held is located in the appendix of the catalog. The faculty listings include only those assigned to the Academy during the 1958 spring term. Additional members will be assigned as the size of the Cadet Wing increases.

Office of the Commandant of Cadets

Commandant of Cadets: Brig. Gen. Stillman

Deputy Commandant of Cadets: Colonel Cassiday

Director of Operations and Training: Colonel Seith

Cadet Dining Hall Officer: Lt. Colonel Echelberger

Cadet Store Officer: Lt. Colonel Roberts

Personnel and Administration Officer: Major Mattick

Executive Officer: Major Almquist

Materiel Officer: Major Buck

Cadet Wing

Air Officers Commanding: Majors Broughton, Enos, Tallman, Woodson, Yancey; Captains Bullock, Gabriel, Ellis, Braswell, Mallett

Command training within the Cadet Wing develops a strong sense of honor, intense loyalty to mission regardless of personal consequences, precision in thought and action, the ability to work successfully with other people, and the proficiency to exercise group leadership.

Prescribed Course

Command Training. Drill

Regular drill periods develop military precision, discipline, and leadership qualities.

No Credit

Department of Military Studies

Director of Military Studies: Colonel Hogan

Deputy Director of Military Studies: Lt. Colonel Lee

Liaison Officers: Wing Commander MacDougall (RAF); Commander Maltby (USN); Lt. Colonel Burdett (USA); Squadron Leader Martin (RAAF)

Instructors: Lt. Colonels Churchville, Gauthier; Majors Bartholf, Boothe, Jones, Morrison, Ryan, Triner, Williams; Captains Banta, Barber, Butterfield, Hite, Kelley, Moore, Mullaney, Roadman, Saford, Sanders, Shawe, Koch

Military studies promote the attitudes and provide the skill and technical knowledge required of an Air Force officer. Through field trips to military installations and specialized training at the Academy, these objectives are carried out by practical application.

The cadet spends his first summer at the Academy undergoing intensive basic military training. Thereafter, he receives classroom instruction along with practical experience in military studies during the fall and spring terms. In the spring of each year, other classes are suspended for approximately two weeks while the cadet makes a field trip to various military installations. During his third spring, the field trip consists of an individual assignment to an Air Force combat squadron.

In addition to the required field trips, the cadet may tour United States and Allied military installations in Europe during his third summer and in the Far East during his fourth summer, if he elects to forego his summer leave.

Prescribed Courses

Military Studies 100. Orientation, Fundamentals, Air Force Weapons, Basic Hygiene, Customs and Courtesies, Field Training

Transition from civilian to military life. Indoctrination in the overall Academy program, cadet regulations, the Honor Code, manual of arms, and internal security. Introduction to basic Air Force weapons, including firing, and indoctrination in aircraft armament. One-week remote airfield encampment where practical exercises replace formal instruction and the first jet aircraft indoctrination ride is given.

2-1/6 Credit Hours

Military Studies 101. The U. S. Air Force, the Combat Commands

Mission and organization of the United States Air Force. Indoctrination in the organization and missions of the Air Force combat commands: Strategic Air Command, Tactical Air Command, and Air Defense Command. A field trip to operational units of the combat commands provides practical application of classroom instruction; includes participation in day-to-day activities of the units and supersonic flights with combat-qualified pilots.

No Credit

Military Studies 200. Missiles, Small Arms Qualifications

The history, development, components, and inventory of guided mis-

siles in the Army, Navy, and Air Force. Qualification in the 38-caliber pistol crew weapon and the 30-caliber carbine.

½ Credit Hour

Military Studies 201-202. Career Orientation, Air Force Logistics, U. S. Army and Navy, Air Force Doctrine

Introduction to career opportunities in the United States Air Force. Air Force logistics and functions of the support commands: Air Materiel Command, Air Research and Development Command, Air Training Command, Air University, Continental Air Command, and Military Air Transport Service. Study of the Army and Navy. A field trip to Army and Navy installations, an Air Materiel Area, the Air Research and Development Center at Wright-Patterson Air Force Base, Ohio, and a fire power demonstration at Eglin Air Force Base, Florida.

5 Credit Hours

Military Studies 300. Employment of Air Power, Small Arms Qualification II

Participation in exercises in the employment of airpower in the United States Air Force and foreign air forces. Continuation of small arms qualification.

1 Credit Hour

Military Studies 301-302. Psychology and Leadership

Development of an understanding of leadership problems in the Air Force. Introduction to psychological principles and concepts necessary to promote understanding. Techniques of effective instruction. Analysis and solution of problems based on actual service situations in a variety of settings. Principles and practice of teaching in preparation for new cadet training. Individual assignment to Air Force combat squadrons.

5 Credit Hours

Military Studies 400. New Cadet Training, Advanced Doctrine

Participation in training new cadets to assist them in the transition from civilian to military life. Instruction in the latest Air Force doctrine and the role of the Air Force in the future.

¾ Credit Hour

Military Studies 402. Missile Tour, Career Guidance

Tour of the Martin Missile Plant in Denver, the North American Air Defense Command at Colorado Springs, and Warren Air Force Base,

a missile base in Cheyenne. Instruction in transition from cadet life to officer life and responsibilities of an Air Force junior officer.

No Credit

Special Activities

According to present plans, members of the First (Senior) and Second (Junior) Classes may visit United States and Allied military installations overseas on a voluntary basis in lieu of summer leave.

Department of Flying Training

Director of Flying Training: Colonel Barthel

Deputy Director of Flying Training: Lt. Colonel Conway

Division and Branch Chiefs: Majors Ethridge, Teel, Pfrang, Sadler; Captains Kirby, Watson

Operations and Scheduling Officers: Captains Andersen, Bachtelle, Minard

Instructors: Captains Allison, Bennet, Berga, Convey, Doane, Downing, Fatiuk, Gibson, Glover, Masters, Shively, Simpson, Uken, Walton, Wilson, Woldt, Wolff, Zurawski; Flight Lieutenant Connolly (RCAF), 1st Lieutenants Coon, Pryor, Rosenthal, Tanner

Mission Pilots: Captains Cox, Erickson, Sciez, Fruth, Walker, White; 1st Lieutenants Bakken, Best, Blasdel, Olson, Tixier

Flying training qualifies the cadet as a rated aerial navigator upon graduation from the Academy. The training he receives in the classroom and aboard the T-29 navigation trainer serves as an ideal foundation for future specialization in many phases of aviation, including supersonic flight, electronic bombing, navigation systems, and guided missiles. In preparation for full-scale pilot training after graduation, the cadet is given jet orientation rides and a pilot indoctrination at one of the Air Force pilot training schools.

Prescribed Courses

Flying Training 100. Introduction to Flying

Introduction to the care and use of flying equipment and survival gear. Orientation flights in the T-29 twin-engine navigation aircraft and the T-33 jet aircraft.

1/3 Credit Hour

Flying Training 101. Physiological Indoctrination

Introduction to physical characteristics of the atmosphere and their

effects on the airman. A simulated flight in the altitude chamber. Emergency procedures practiced under flight conditions.

1/2 Credit Hour

Flying Training 200.1. Pilot Indoctrination

Familiarization with techniques and problems of piloting an aircraft. Approximately 11 hours of dual instruction in T-28 and T-34 type aircraft, accomplished during a two-week period at one of the Air Force pilot training schools.

1 1/2 Credit Hours

Flying Training 200.2. Physiological Indoctrination

A refresher of subjects treated in Flying Training 101.

1/6 Credit Hour

Flying Training 201. Fundamentals of Navigation

A thorough background of navigation fundamentals including dead reckoning, familiarization with navigation instruments, airplot, simulated and flight navigation missions. Practical aspects of meteorology.

2 Credit Hours

Flying Training 202. Celestial Navigation

Theoretical and practical aspects of celestial navigation. Presentations in the planetarium portray celestial-terrestrial relationships. Simulated and flight navigation missions accomplished.

2 Credit Hours

Flying Training 300.1. Grid Navigation

The theory and application of grid navigation used in sub-polar and polar areas. Use of grid directional reference and gyro principles; causes, effects, and correctional measures for precession. Simulated and flight missions.

1 Credit Hour

Flying Training 300.2. Soaring

Familiarization in techniques of powerless flight utilizing commercial two-place gliders. A minimum of two launches usually made by air tow. Practical application of meteorology, particularly wind effects and thermal activity.

No Credit

Flying Training 301. Directional and Fixing Aids to Navigation, Part I

Uses of present and future radar systems. The theoretical aspects,

operating procedures, and capabilities of these systems. Radar operating procedures and problems of radarscope interpretation practiced on radar trainers. Practice radar, grid, and celestial flight missions.

1½ Credit Hours

Flying Training 302. Directional and Fixing Aids to Navigation, Part II

Theory and application of pressure pattern (a flight technique of utilizing upper air meteorological data) and Loran (an electronic fixing device). Approximately 40 per cent of the Loran phase is conducted in the laboratory. In-flight instruction continues with practice in celestial, grid, and radar techniques.

1½ Credit Hours

Flying Training 400. Advanced Navigational Techniques

Integrates all phases of navigation previously presented. Emphasis upon electronic and inertial systems used to guide and position aircraft and missiles. Future trends in navigation. Corresponding in-flight and trainer instruction.

½ Credit Hour

Flying Training 401-402. Comprehensive Navigation Flight Training

Twelve missions are flown including over-water flights. Missions provide opportunity for extensive practice in techniques learned during the preceding three years. In-flight requirements are progressively increased throughout the year so the final flights integrate all forms of navigation. Successful completion of these missions insures the knowledge and skills necessary to direct an aircraft to any part of the world.

No Credit

Special Course

Flying Training 204. Descriptive Meteorology

Radiation and heat balance in the atmosphere; temperature distribution; air mass and frontal analysis; general circulation; fog, thunderstorms; weather at jet operational altitudes; survey of weather analysis and forecasting; use and interpretation of climatological data. Prerequisite: Flying Training 200.

2½ Credit Hours

Department of Physical Education

Director of Physical Education: Major Myslinski

Deputy Director of Physical Education: Major Lobdell

Professional Assistant: Dr. Mackenzie

Division and Branch Chiefs: Captains Anderson, Cillo; 1st Lieutenant Karns, Mr. Genasci

Instructors: Captain Ludlow; 1st Lieutenants McNamara, Rose, Shain, Verducci; Mr. Kitt

Physical education develops the courage, initiative, stamina and physical skill required of an officer who will lead others. These objectives are achieved through a program of physical conditioning, participation in a variety of individual and team sports, and development of instructional abilities in sports and games.

During each fall and spring term, the cadet must participate either in intramural or intercollegiate sports offered during those seasons. Intramural practice and competition among the cadet squadrons are scheduled by the Department of Physical Education in 90-minute sessions two afternoons each week. Intercollegiate practice and competition with other collegiate teams are scheduled as necessary by the Department of Athletics.

Prescribed Courses

Physical Education 100. Physical Conditioning

Develops physical strength, endurance, agility, and coordination through conditioning exercises, conditioning games, obstacle course, bayonet instruction, and recreational sports. Sports include touch football, volleyball, basketball, and soccer. A physical fitness test at the completion of the term provides the total term grade.

1½ Credit Hours

Physical Education 101-102. Boxing, Judo, Swimming, Gymnastics, Intramural or Intercollegiate Sports, Testing

Instruction and practice in boxing, judo, swimming, and gymnastics. Participation in intercollegiate or intramural sports. A physical fitness test comprises a portion of the term grade in this course and subsequent courses.

1½ Credit Hours

Physical Education 200. Lacrosse, Track, Testing

Instruction and practice in lacrosse and track. Physical fitness test.

5/6 Credit Hour

Physical Education 201-202. Judo, Basketball, Intramural or Intercollegiate Sports, Testing

Instruction and practice in judo and basketball. Participation in intramural or intercollegiate sports. Physical fitness test.

1/3 Credit Hour

Physical Education 300. Soccer, Tennis, Testing

Instruction and practice in soccer and tennis. Physical fitness test.

1 Credit Hour

Physical Education 301-302. Principles of Coaching, Instructor Training, Intramural or Intercollegiate Sports, Testing

Instruction in principles of coaching prepares Second Classmen to coach intramural teams during their First Class fall and spring terms. Instructor training prepares Second Classmen to instruct Physical Education 100 during their First Class summer. Participation in intramural or intercollegiate sports. Physical fitness test.

1/3 Credit Hour

Physical Education 400. Golf, Volleyball, Testing

Instruction and practice in golf and volleyball. Physical fitness test.

1/3 Credit Hour

Physical Education 401-402. Handball, Squash, Administration of Air Force Athletics, Intramural or Intercollegiate Sports, Testing

Instruction and practice in handball and squash. Instruction in administration of Air Force athletics prepares the First Classman to assume duties of an Air Force officer in administration of an athletic program. Participation in intramural or intercollegiate sports. Physical fitness test.

1/3 Credit Hour

Special Activities

Elective physical education is available through special instruction or club activity in sports not offered in the intercollegiate program. These sports are judo, skiing, squash, and handball. Competition in these activities is often scheduled with local area institutions and clubs.

Cadet Finances

Admission Deposit

It is desired that each cadet deposit \$300 when admitted to the Academy. A cadet who finds it impossible to provide the full sum may deposit a smaller amount. The deposit is credited to the cadet's account to help defray initial costs of equipment and uniforms issued to him on a charge basis after admission. Failure to make a deposit is no bar to admission. However, a cadet who does not make a deposit must be considerably more economical with his pay, in order to meet necessary expenses and participate in normal activities until his account reaches the required normal balance. Each candidate selected for the Academy receives a copy of the *Cadet Budget* which includes specific information regarding the entrance deposit.

Travel Expenses

Except for a member of the Armed Forces who is provided transportation under joint travel regulations, each selected candidate is allowed six cents per mile for travel expenses to the Academy from his home in the United States or point of entry into the country. The allowance will be credited to his account following admission, unless he makes a specific request that the money be sent to his parents. If the allowance is credited to his account, the cadet may choose to apply the sum toward his entrance deposit.

Pay and Allowances

An Air Force cadet receives his education at government expense. In addition to an allowance for food, he receives \$111.15 per month which is credited to his account to pay for academic supplies, clothing, and personal expenses. Quarters and medical care are provided. With proper economy during his four years at the Academy, he will save enough to purchase the uniforms he will need as an officer upon graduation. A cadet's pay and allowances are considered sufficient for him to be self-supporting. However, he should not be indebted when entering the Academy, because his pay is not sufficient to defray any significant obligations contracted prior to entrance.

Insurance

The government does not provide extensive life insurance coverage to cadets. They are afforded only limited benefits under Public Law 881, The Servicemen's and Veterans' Survivorship Benefits Act. Can-

didates who are notified of appointment may wish to initiate or extend their insurance coverage before coming to the Academy.

Career Information

Officer Rank

A cadet who has maintained the required grades will be graduated from the Academy with a commission as a second lieutenant in the Regular component of the United States Air Force. Completion of navigation training entitles him to the aeronautical rating of navigator.

Pilot Training

An Academy graduate who has remained physically qualified for flying will be sent directly to pilot training after a month of leave. He will spend about one year in primary and basic pilot training to earn the aeronautical rating of a pilot. After graduation from basic, he will be sent to an advanced training base to fly the operational aircraft of his specialty and to learn the particular abilities required for the type of mission he is expected to perform.

Career Assignments

Early in his career the Academy graduate will likely serve in an operational unit as an air crew member in fighter, bomber or troop carrier aircraft. He may be sent to a professional technical school for specialization in guided missiles and receive an assignment in missile operation or research and development. Further education at an Armed Forces graduate school or at a civilian college or university might also be one of his early assignments. As he progresses in his career he will rotate between educational assignments, air crew duties, and staff positions — both in the United States and overseas. Since he will be trained in several career fields, the range of his professional specialization will be wide. With advances in rank his responsibilities will increase proportionately, and opportunities will be ever-present for him to evolve to greater command responsibility.

Career Benefits

The Academy graduate will obtain substantial periodic pay increases and accrue promotions on the basis of efficiency and seniority through successive ranks. Besides his base pay he will receive such benefits as flight pay, tax free subsistence and quarters allowances,

medical care, payment of transportation costs, dislocation adjustments, and retirement pay.

Advanced Education

The Air Force encourages its officers to apply for study in civilian colleges or universities for the Air Force Institute of Technology. An officer is accepted for an educational assignment, based on his qualifications and the needs of the Air Force in his chosen field of study. It is anticipated that a substantial number of Academy graduates will have the opportunity to obtain an advanced degree. The Academy's four-year curriculum will qualify a graduate to obtain a master's degree either in physical sciences, social sciences or humanities. All Academy graduates may expect to be assigned during their careers to one or more of the Armed Forces schools for advanced professional studies.

Leaves of Absence and Off-Base Privileges

The Academy recognizes that vacation periods are vital to the morale and welfare of a cadet. However, a cadet is not at liberty to take a leave of absence from the Academy when he may desire. Since he is a member of the Armed Forces engaged in highly specialized education and training at government expense, it is necessary to limit and control his periods of leave.

Except in extreme emergencies, leaves are not granted during a cadet's first year at the Academy while he is developing a sense of discipline and esprit de corps. Although required to remain at the Academy during the Christmas holidays, the Fourth Classman is relieved from duty and study. He may enjoy all the privileges of an upperclassman during the holidays and entertain visitors at Arnold Hall, the recreation center for upperclassmen.

During his second summer at the Academy, a cadet receives his first leave of approximately four weeks. Thereafter, during each of his years as an upperclassman, he may be permitted to take leave for approximately one month during the summer and for twelve days at Christmas. The prescribed leave may be denied to a cadet who is serving punishment or is deficient in his academic work.

Emergency leave may be granted to a cadet whose emergency involves a member of his immediate family. Other requests for special leave are considered on an individual basis.

All cadets are permitted to have off-base privileges on specific holidays, after varsity football games, and for occasional dining with friends and relatives. Upperclass cadets are authorized a specific number of week-end leaves, ranging upward in number from their Third Class to First Class year.

Grading

Methods of Grading

A cadet's work in each course of instruction is graded on a percentage basis, with 70 percent being the lowest passing grade. His cumulative record in each course is posted weekly on class bulletin boards, along with a report of all cadets who are failing in one or more subjects. A cadet who is failing will be given a chance to remedy his grades by extra instruction and special examinations.

Each department gives grades at least once each week. Regular evaluation, coupled with the use of small class sections, makes it possible for an instructor to give adequate attention to the individual difficulties of his cadet students. Scheduled and controlled periods of study insure that the cadets have adequate time for class preparation.

Grade Reports

Each cadet receives a grade report five times each year: at the end of the summer term, at the middle of the fall and spring terms, and at the end of the fall and spring terms. Copies of the report are sent to the cadet's parents, his Congressman (if he was nominated by a Congressman), his Air Officer Commanding, and the principal of the high school from which he was graduated (at the semester end only).

Grade reports include the following:

1. The average grade the cadet attained in each course and his standing among all cadets taking the course.
2. His standing in conduct as determined by the number of demerits he received for violating rules and regulations.

If a grade report includes a notation "On the Superintendent's Merit List," this means that the cadet has completed the term with a grade average in each course of 81 percent or higher (80 percent if he was taking special courses) and ranks in the top 75 percent of his class in aptitude for commissioned service and in conduct.

If the grade report includes a notation "Distinguished Cadet," this means that he was in the top 5 percent of his class in overall achievement during the preceding academic year.

Deficiency and Discharge

A cadet whose final grades at the end of a term of instruction fail to meet the required standards in any general education or military airmanship course, or a cadet who is deficient in conduct or aptitude for commissioned service, will be reported to the Academy Board by the Dean of Faculty or the Commandant of Cadets. The Academy Board will consider the cadet's case carefully and recommend one of the following actions to the Superintendent, based on the majority opinion:

1. That the deficiency should be removed if the cadet can pass a re-examination on the area in which he is deficient.
2. That the cadet should be permitted to continue with his class upon condition that he remove the deficiency in a specified time and manner.
3. That the cadet who has failed only one course should be permitted to continue with his class on the condition that he repeat the failed course.
4. That the cadet should be temporarily suspended from the Academy and permitted to re-enter with the next succeeding class.
5. That the cadet should be discharged from the Academy.

The type of decision that is made will depend upon the nature and seriousness of the deficiency. An Academy Board recommendation for discharge of a cadet, if approved by the Superintendent, will be submitted to the Secretary of the Air Force for a final decision.

A discharged cadet who was a member of the Armed Services before entering the Academy will be transferred with previous rank to his former branch of service for completion of his tour of duty. The time he spent at the Academy will apply toward his service commitment. A cadet who was not a member of the Armed Services will not be permitted to apply the time he spent at the Academy toward his selective service obligation.

Educational Services

The Library

The Air Force Academy Library provides a thorough reference and reading collection to support the broad scope of the General Education Program and the specialized studies of the Military Airmanship Program. It also contains an up-to-date collection of recreational reading materials.

The Library has been expanding rapidly, and its coverage has been extended each year to provide maximum facilities for the student body as they progress in their studies. As of January 1, 1958, the Library holdings numbered more than 60,000 items. Eventually some 250,000 volumes of a general book collection, including a comprehensive collection of aeronautical books, will line the shelves of the spacious new Library at the permanent site.

One of the outstanding features of the Library is its periodical reading section, containing current issues of more than 950 magazines and 70 newspapers from all parts of the United States and abroad. In its special collection the Library maintains the Academy archival materials, the rare book collection, and the art collection.

Academic Counseling

The Office of Academic Counseling assists cadets to improve their study skills and academic potential. The counseling staff is primarily interested in helping cadets to solve problems which interfere with academic performance and keep them from reaching their maximum development. The staff guides the cadets in reaching better self-understanding and making important personal decisions and adjustments. The office maintains close liaison with faculty members so that they may assist cadets to improve their study habits and to develop special aptitudes and career interests.

Audio-Visual Services

The Office of Audio-Visual Services provides teaching aids to the instructional departments to contribute to more effective learning. The teaching aids include charts, slides, motion pictures, records, models, mock-ups, instructional journals and workbooks, and closed circuit television productions.

The Air Force Cadet Wing

Life in the Air Force Cadet Wing provides an opportunity for personal development of leadership traits and recognition for outstanding performance. The Cadet Wing consists of a headquarters, permanent cadet groups and squadrons, and such provisional groups and squadrons as may be considered necessary.

Each squadron and group is supervised by a commissioned officer, designated as the Air Officer Commanding. He is individually selected to represent to the cadet the highest standards of professional competence, experience, integrity, leadership, and career motivation.

Cadets are appointed to positions of responsibility within the Cadet Wing to perform administrative duties and to assist with the military training and discipline of new cadets. They are chosen for these positions of cadet officer and noncommissioned officer rank by the Air Officers Commanding, as approved by the Commandant of Cadets. The Cadet Effectiveness Rating System, in which each cadet rates all other cadets in his squadron on the basis of their leadership ability, is utilized to assist in these selections. A cadet's performance in all phases of training is taken into consideration.

Some of the officer positions within the Cadet Wing are Commander, Adjutant, Operations Officer, and Supply Officer. Noncommissioned officer positions are First Sergeant, Supply Sergeant, Flight Sergeant, Element Leader, and Color Bearer. A cadet is ranked according to his position and rank is shown on the shoulder boards of his uniform. Ranks range from Cadet Basic, the new Fourth Class cadet, to Cadet Colonel, the Wing Commander.

Honor Code

Air Force cadets live by an Honor Code which they administer through their elected Honor Representatives. The code embodies these principles: "We will not lie, cheat or steal, nor tolerate among us those who do."

Compliance with the provisions of this code has been recognized both by the cadets and the military authorities as essential to the development of an Air Force officer. Every officer must follow this concept of honor if he is to perform his duties and carry out his responsibilities properly. Failure to do so would make it impossible to maintain

the respect, confidence, and wholehearted cooperation of any command.

A cadet develops the sense of honor as part of his nature while at the Academy. Both in and out of the classroom, he practices the virtues of personal integrity, mutual trust, and loyalty. His relationships with officers and fellow cadets help to mold and strengthen his allegiance to the Honor Code.

Religious Program

A well balanced religious program for adherents of the three major faiths — Protestant, Catholic, and Jewish — provides all cadets with an opportunity for religious worship and moral development.

To prepare cadets for eventual assumption of command, which entails responsibility for the religious life and moral welfare of persons within a command, the religious program stresses the desirability of sound religious and moral values in daily life. Proper motivation is stressed to enable cadets to meet the challenges of military discipline and the personal restrictions exacted by the demands of development in self-control.

Upon arriving at the Academy each cadet determines according to his major faith the specific Chapel Flight of his choice. Attendance at Sunday or Sabbath services of the faith selected is mandatory thereafter. All other participation in religious activities is voluntary. A wide variety of religious opportunities is afforded, including daily worship services, special denominational worship functions, choir participation, and religious instruction classes.

The Academy Chaplains participate in an extensive program of personal counseling. Their status as clergymen, with the safeguard of privileged communications, greatly enhances their work in this field. During free-time periods cadets may consult with their Chaplains on any problems they may have.

The Cadet's Day

During the fall and spring terms a cadet's normal week day begins at 6:00 in the morning (7:30 on Sundays and holidays). Before classes begin he has breakfast and prepares his portion of the two-man room for morning inspection. He attends classes or studies until noon. Then he marches in squadron formation to the Cadet Dining Hall

where his meal is served family style at a ten-man table. After lunch he attends classes until 3 o'clock.

Unless he is participating in intercollegiate athletics, he practices or plays on a squadron intramural team after classes two afternoons a week. The other three afternoons during the week he spends in study or organized cadet recreational activities. He may volunteer for extra instruction in general education subjects from 4:45 to 5:45 each afternoon during the week.

After dinner the cadet has approximately 45 minutes of free time, unless a special lecture is scheduled. At 7:15 he must be in his room for study until 9:45. Visits to the Library are authorized during study time. Unless the cadet is permitted to have late lights until 11:00, he must be in bed with lights out at 10:00.

Each Saturday night and Sunday afternoon cadets may attend the movie at the Cadet Theater.

A cadet's privileges increase throughout his four years at the Academy. As a Fourth Classman he may leave the base only a few times a year. As a First Classman he is authorized one week-end leave each month and may leave during specified times on other week ends whenever his duties permit.

Intercollegiate Athletics

Athletics at the Air Force Academy are an important part of cadet training. Every cadet participates in athletic events — either intercollegiate or intramural — for the development of a healthy competitive spirit, teamwork, and loyalty.

Whether a beginner or an experienced athlete, every cadet has an opportunity for instruction and practice in the sport of his choice in competition with those of comparable ability. Through careful coaching a number of cadets who have not participated extensively in athletic events will develop to the level of intercollegiate competition.

The Academy's intercollegiate teams are known as the Falcons. The Falcon was adopted as the official Academy mascot as a symbol of the strength, skill, and courage required of a pilot in the United States Air Force.

During the 1958-59 season the Falcons will compete with leading colleges and universities from all parts of the nation. The Academy teams will meet strong intersectional opposition in all varsity sports.

The sports currently offered are football, soccer, and cross-country in the fall; basketball, wrestling, swimming, gymnastics, skiing, fencing, rifle and pistol in the winter; baseball, track, golf, and tennis in the spring.

To remain eligible for participation in intercollegiate sports, a cadet must maintain an average of 70 in each subject he takes.

Social Life and Extracurricular Activities

Cadet social life includes many formal and informal dances and gatherings held at Arnold Hall, the cadet recreation center for upper-classmen. Fourth Classmen hold informal social functions at the Fourth Class Club. At Christmas all the facilities of Arnold Hall are available to Fourth Classmen, and they hold their first formal dance at that time.

The entire Cadet Wing attends intercollegiate football and basketball games held at home. College color at the athletic events is provided by the Academy band, cadet cheer leaders, the Falcon mascot, and its cadet trainers.

Besides the general recreational events, varieties of organized extracurricular activities are available to the cadets for the purpose of developing their creative talents and hobbies. The cadets themselves have great latitude in organizing their own clubs and in choosing those they wish to join. The following activities are currently available:

Class Committees	Cadet Radio Club
Honor Code Representatives	Cadet Ski Club
Class Ring Committee	Cadet Judo Club
Cadet Wing Entertainment Committee	Cadet Dance and Pep Band
Cadet Wing Dance Committee	Cadet Glee Club
Yearbook Staff	Cadet Model Engineering Club
Contrails Staff	Cadet Photography Club
Talon Staff	Cadet Skeet Club
Cadet Forensic Association	Cadet Hunting Club
Cadet Forum	Cadet Fishing Club
Cadet Mathematics Forum	Cadet Soaring Club
Cadet Geography Club	Cadet Bridge Club
Cadet Chess Club	Cadet Lacrosse Club
	Cadet Falcon Club



General Education Faculty

Acker, William J., Captain	<i>Assistant Professor of Geography</i> B.S., Purdue University; M.S., University of Kansas; M.A., Syracuse University
Albright, John S., Major	<i>Assistant Professor of Philosophy</i> B.S., M.A., University of Maryland
Alm, Ross C., Captain	<i>Instructor in English</i> B.A., University of North Dakota; M.A., Michigan State University
Anderson, Loren A., Captain	<i>Instructor in Aerodynamics</i> B.S., United States Military Academy; M.S.A.E., University of Michigan
Anderson, Willis S., Captain	<i>Assistant Professor of Chemistry</i> A.B., B.S., Cedarville College; M.S., Ohio State University
Ault, John W., Colonel	<i>Professor and Head of Mathematics Department; Chairman of Basic Sciences Division</i> B.S., Bowling Green State University; M.A., Ohio State University
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Banister, Arthur W., Captain	<i>Assistant Professor of Mathematics</i> B.S., United States Military Academy; M.S., North Carolina State College
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Barricklow, John A., Major	<i>Assistant Professor of Mechanics</i> B.S., United States Military Academy; M.S., Stanford University
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Black, William E., Major	<i>Assistant Professor of Economics</i> B.A., Oglethorpe University; LL.B., John Marshall Law School; M.B.A., University of Georgia

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Major</p> <p>Bowen, Lewis L.,
Lieutenant Colonel</p> <p>Boyne, John J., Captain</p> <p>Bradbury, Julian W.,
Captain</p> <p>Braden, Donald D.,
Major</p> <p>Bretting, Martin M.,
Captain</p> <p>Brockway, Fred A.,
Captain</p> <p>Brown, Daniel G.,
Captain</p> <p>Browne, Lewis C. L.,
Captain</p> <p>Carley, John W.,
Major, (USA)</p> <p>Carpenter, Hazen C.,
Major</p> <p>Clark, William G.,
Captain</p> <p>Clement, Robert W.,
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|---|---|

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Ramsaur, Robert T., Lieutenant Colonel	<i>Associate Professor of Geography</i> A.B., University of California; M.A., Stanford University; Ed.D., Columbia University
Rex, Edward M., Lieutenant Colonel	<i>Associate Professor of Thermodynamics</i> B.S., University of Rochester; M.S., Massachusetts Institute of Technology
Reynolds, Benoni O., Major	<i>Instructor in Law</i> Ph.B., LL.B., University of Wisconsin
Richardson, William L., Jr., Captain	<i>Instructor in History</i> B.S., United States Military Academy; M.A., Columbia University
Richter, Gerald F., Major	<i>Associate Professor of English</i> A.B., Nebraska State College; M.A., Northwestern University

Riedel, John K., Captain	<i>Instructor in Mechanics</i> B.S., Pennsylvania State University; M.S., University of Illinois
Rippey, Robert S., Jr., Captain	<i>Assistant Professor of Economics</i> B.S., Lehigh University; M.S., London School of Economics and Political Science
Roadman, Harry E., Captain	<i>Assistant Professor of Psychology</i> B.A., Duquesne University; M.A., Ph.D., University of Minnesota
Robertson, Bennett E., Lieutenant Colonel	<i>Professor and Head of Physics Department</i> B.A., University of Oklahoma; Ph.D., Ohio State University
Rowden, Robert W., Lieutenant Colonel	<i>Associate Professor of Chemistry</i> B.S., Ch.E., M.S., University of Arkansas; Ph.D., University of North Carolina
Ruenheck, Wilbert H., Lieutenant Colonel	<i>Associate Professor of History</i> A.A., Kemper Military School; A.B., Washington University; A.M., Ph.D., New York University
Rule, George L., First Lieutenant	<i>Instructor in English</i> B.S., United States Military Academy; M.A., Stanford University
Sala, John R., Lieutenant Colonel	<i>Professor and Head of History Department</i> A.B., Bethany College; A.M., West Virginia University; Ph.D., University of Chicago
Schlight, John First Lieutenant	<i>Instructor in Philosophy</i> B.A., St. Vincent's College; M.A., Fordham University
Schlogl, John C., Major	<i>Assistant Professor of History</i> B.S., Fordham University; M.A., Columbia University
Shwiller, Seymour, Major	<i>Assistant Professor of Physics</i> B.S., College of William and Mary; M.S., Ohio State University
Seeger, Charles M., Captain	<i>Assistant Professor of Psychology</i> B.S., Wilmington College; B.S., United States Military Academy; M.A., Ohio State University
Shultz, Harold D., Captain	<i>Instructor in History</i> B.S., United States Military Academy; M.A., Stanford University
Simon, King D., Major	<i>Instructor in Law</i> B.S., United States Military Academy; LL.B., University of California
Singleton, James L., Captain	<i>Assistant Professor of Electrical Engineering</i> B.S., University of Colorado
Slizeski, Robert S., Captain	<i>Instructor in Mathematics</i> B.S., United States Military Academy; M.S., California Institute of Technology

Smith, Bernard M., Major	<i>Instructor in Psychology</i> B.A., M.A., University of Louisville; M.A., University of Kentucky
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Smith, Herbert H., Captain	<i>Instructor in Mathematics</i> B.S., University of Kentucky; M.S., Harvard University
Stebbins, Albert K., III, Major	<i>Associate Professor of Physics</i> B.S., United States Military Academy; M.S., Purdue University
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Taylor, Franklin W., Major	<i>Associate Professor of Cartography</i> B.S., United States Military Academy
Taylor, Robert L., Captain	<i>Assistant Professor of Chemistry</i> B.S., M.A., University of Texas
Terry, Joseph E., Lieutenant Colonel	<i>Associate Professor of Geography</i> B.A., Golden Gate College; M.A., San Jose State College; Ed.D., University of Denver
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Thompson, Warren C., Lieutenant Colonel	<i>Associate Professor of English</i> A.B., University of California at Los Angeles; M.A., University of California; Ph.D., University of Southern California
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Walsh, Robert A., Captain	<i>Instructor in Physics</i> B.S., United States Military Academy; B.S.E.E., Air Force Institute of Technology; M.S.E.E., Stanford University
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Whitaker, Robert M., Captain	<i>Assistant Professor of Political Science</i> A.B., M.A., University of California
Williams, John G., Jr., Major	<i>Assistant Professor of History</i> B.S., United States Military Academy; M.A., Georgetown University
Wilson, James V. G., Colonel	<i>Professor and Head of Electrical Engineering Department</i> B.S., United States Military Academy; M.S., University of Illinois
Woods, Donald R., Captain	<i>Assistant Professor of Cartography</i> B.S., United States Military Academy; M.S., Purdue University
Woodyard, William T., Colonel	<i>Professor and Head of Chemistry Department</i> A.S., St. Joseph's Junior College; M.S., A.M., University of Missouri
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Young, Stewart, Captain	<i>Assistant Professor of Mathematics</i> B.S., United States Military Academy; M.S., Air Force Institute of Technology
Yucker, Julius L., Jr., Lieutenant Colonel	<i>Associate Professor of Chemistry</i> B.S., Michigan State College; M.S., M.A., Ohio State University; Ed.D., University of Denver
Zink, David D., II, First Lieutenant	<i>Instructor in English</i> B.J., University of Texas; M.A., University of Colorado

Military Airmanship Faculty

Allison, Clark H., Captain	<i>Instructor in Flying Training</i> B.S., United States Military Academy
Andersen, Robert N., Captain	<i>Assistant Operations Officer, Flying Training</i>
Anderson, Roy L., Jr., Captain	<i>Chief, Facilities Division, Physical Education</i> B.S., M.S., University of New Mexico
Bachtelle, Stewart M., Captain	<i>Scheduling Officer, Flying Training</i>
Bakken, Robert W., First Lieutenant	<i>Mission Pilot, Flying Training</i> A.A., Austin Junior College
Banta, William, Captain, (USMC)	<i>U. S. Marine Corps Liaison Officer, Military Studies</i> B.S., United States Naval Academy
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Barthel, Carl C., Colonel	<i>Director of Flying Training</i> B.S., University of Maryland
Bartholf, John C., Major	<i>Instructor in Military Studies</i> B.S., United States Military Academy
Bennet, Mortimer F., Captain	<i>Instructor in Flying Training</i> B.S., Florida Southern University
Berga, John O., Captain	<i>Instructor in Flying Training</i> B.S., United States Naval Academy
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Boothe, Marvin R., Major	<i>Instructor in Military Studies</i> B.S., Roanoke College; M.B.A., George Washington University
Braswell, Arnold W., Captain	<i>Air Officer Commanding, 6th Cadet Squadron</i> B.S., United States Military Academy
Bullock, Thomas F., Captain	<i>Air Officer Commanding, 1st Cadet Squadron</i> B.S., United States Military Academy
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Butterfield, Alexander P., Captain	<i>Instructor in Military Studies</i> B.S., University of Maryland
Cassiday, Benjamin B., Jr., Colonel	<i>Deputy Commandant of Cadets</i> B.S., United States Military Academy
Churchville, Louis J., Lieutenant Colonel	<i>Chief, Air Power Employment Division, Military Studies</i> B.S., University of Maryland
Cillo, Anthony R., Captain	<i>Chief, Instructional Division, Physical Education</i> B.S., Rutgers University
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Convey, John P., Captain	<i>Instructor in Flying Training</i> B.S., University of California
Conway, Victor C., Lieutenant Colonel	<i>Deputy Director of Flying Training</i> B.A., University of California
Coon, Richard D., First Lieutenant	<i>Instructor in Flying Training</i> B.S., University of Colorado
Cox, Rex C., Captain	<i>Mission Pilot, Flying Training</i>
Dixon, Emory H.	<i>Educational Advisor, Operations and Training</i> B.M., Boston University; M.A., Colorado State College
Doane, Elvin I., Captain	<i>Instructor in Flying Training</i> B.A., University of Wichita
Downing, Walter C., Captain	<i>Instructor in Flying Training</i> B.A., University of California
Ellis, Billy J., Captain	<i>Air Officer Commanding, 5th Cadet Squadron</i> B.S., United States Military Academy
Emanuel, Herbert L., First Lieutenant	<i>Cadet Activities Officer</i> B.A., University of Massachusetts
Ennis, Robert B., Captain	<i>Chief, Training Branch, Operations and Training</i> B.S., United States Military Academy
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Erickson, Arthur F., Captain	<i>Mission Pilot, Flying Training</i>
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Fatiuk, Michael, Jr., Captain	<i>Instructor in Flying Training</i> B.S., Roanoke College
Fruth, Robert L., Captain	<i>Mission Pilot, Flying Training</i> B.S., Geneva College
Gabriel, Charles A., Captain	<i>Air Officer Commanding, 3rd Cadet Squadron</i> B.S., United States Military Academy
Gauthier, John P., Lieutenant Colonel	<i>Chief, Leadership and Air Training Division, Military Studies</i>
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Gibson, William H., Captain	<i>Instructor in Flying Training</i> B.S., University of Georgia
Glover, Fred E., Captain	<i>Instructor in Flying Training</i>
Hite, Kenneth F., Captain	<i>Instructor in Military Studies</i> B.S., United States Military Academy
Hogan, H. L., III, Colonel	<i>Director of Military Studies</i> B.S., United States Military Academy
Jones, Arthur M., Major	<i>Instructor in Military Studies</i>
Karns, Robert C., First Lieutenant	<i>Chief, Intramural Division, Physical Education</i> B.S., United States Military Academy
Kelley, Robert N., Captain	<i>Instructor in Military Studies</i> B.S., United States Military Academy
Kirby, Wilfred W., Captain	<i>Chief, Inflight Branch, Flying Training</i> B.A., Sacramento State College
Kitt, Karl A.	<i>Instructor in Physical Education</i> B.S., Southwestern (Oklahoma) State Teachers College
Koch, Edwin E., First Lieutenant	<i>Instructor in Military Studies</i> B.A., Cornell University
Lee, Raymond C., Jr., Lieutenant Colonel	<i>Deputy Director of Military Studies</i> B.S., M.S., Pennsylvania State College
Lobdell, Harrison, Jr., Major	<i>Deputy Director of Physical Education</i> B.S., United States Military Academy
Ludlow, John D., Captain	<i>Instructor in Physical Education</i> B.S., United States Military Academy
MacDougall, Ian M., Wing Commander, (RAF)	<i>Royal Air Force Liaison Officer, Military Studies</i>

- | | |
|--|---|
| Mackenzie, Marlin M. | <i>Professional Assistant, Physical Education</i>
B.A., Amherst College;
M.A., Ed.D., Columbia University |
| McNamara, Michael F.,
First Lieutenant | <i>Instructor in Physical Education</i>
B.S., Washington State College |
| Mallett, S. T. Charles,
Captain, (USA) | <i>Air Officer Commanding,
4th Cadet Squadron</i>
B.S., United States Military Academy |
| Maltby, Arthur L., Jr.,
Commander, (USN) | <i>U.S. Navy Liaison Officer, Military Studies</i>
B.S., United States Naval Academy |
| Martin, Keith A.,
Squadron Leader,
(RAAF) | <i>Royal Australian Air Force Liaison Officer,
Military Studies</i> |
| Masters, Allen, Captain | <i>Instructor in Flying Training</i> |
| Minard, Craig F., Captain | <i>Operations Officer, Flying Training</i> |
| Moore, Arthur R., Jr.,
Major | <i>Operations Officer, Operations and
Training</i>
B.S., United States Military Academy |
| Moore, Robert B.,
Captain | <i>Instructor in Military Studies</i>
B.S., United States Military Academy |
| Morrison, Robert E.,
Major | <i>Chief, Management and Support Division,
Military Studies</i>
B.S., United States Military Academy |
| Mullaney, David M.,
Captain | <i>Instructor in Military Studies</i>
B.S., United States Military Academy;
M.S., Air Force Institute of Technology |
| Myslinski, Casimir J.,
Major | <i>Director of Physical Education</i>
B.S., United States Military Academy;
M.A., Columbia University |
| Olson, James R.,
First Lieutenant | <i>Mission Pilot, Flying Training</i>
B.S., United States Naval Academy |
| Pfrang, Richard J.,
Major | <i>Chief, Fundamentals Branch,
Flying Training</i>
B.A., Sacramento State College |
| Pryor, Richard W.,
First Lieutenant | <i>Instructor in Flying Training</i> |
| Rose, Jack A.,
First Lieutenant | <i>Instructor in Physical Education</i>
B.A., M.S., University of Washington |
| Rosenthal, Herbert M.,
First Lieutenant | <i>Instructor in Flying Training</i> |
| Ryan, William G., Major | <i>Chief, Management Branch,
Military Studies</i>
B.A., University of California;
M.B.A., Harvard University |

Sadler, Robert E., Major	<i>Chief, Advanced Branch, Flying Training</i>
Safford, Philip R., Captain	<i>Instructor in Military Studies</i> B.S., United States Military Academy
Sanders, Robert C., Captain, (USA)	<i>Instructor in Military Studies</i> B.S., United States Military Academy
Sciez, John L., Captain	<i>Mission Pilot, Flying Training</i>
Seith, Louis T., Colonel	<i>Director of Operations and Training</i> B.S., United States Military Academy
Shain, Elwin R., First Lieutenant	<i>Instructor in Physical Education</i> B.S., United States Military Academy
Shawe, Hamilton B., Jr., Captain	<i>Instructor in Military Studies</i> B.S., United States Military Academy
Shively, James C., Jr., Captain	<i>Instructor in Flying Training</i> B.S., United States Military Academy
Simpson, Jefferson A., Captain	<i>Instructor in Flying Training</i> B.S., United States Military Academy
Stillman, Robert M., Brigadier General	<i>Commandant of Cadets</i> B.S., United States Military Academy
Tallman, Kenneth L., Major	<i>Air Officer Commanding, 2nd Cadet Group</i> B.S., United States Military Academy
Tanner, John D., First Lieutenant	<i>Instructor in Flying Training</i> B.S.M.E., University of Toledo
Teel, Marvin F., Major	<i>Support Division, Flying Training</i>
Tixier, Edward L., First Lieutenant	<i>Mission Pilot, Flying Training</i> B.A., University of New Mexico
Uken, H. L., Captain	<i>Instructor in Flying Training</i> B.S., Southern State (South Dakota) Teachers College
Verducci, Frank M., First Lieutenant	<i>Instructor in Physical Education</i> B.A., San Francisco State College
Walker, Lloyd F., Captain	<i>Mission Pilot, Flying Training</i>
Walton, Lawrence H., Captain	<i>Instructor in Flying Training</i>
Watson, Boyd A., Captain	<i>Chief, Maintenance and Supply Division, Flying Training</i>
White, William F., Captain	<i>Mission Pilot, Flying Training</i>
Williams, Wayland W., Major	<i>Instructor in Military Studies</i> B.A., Colgate University

Wilson, Ernest F., Captain	<i>Instructor in Flying Training</i> B.A., University of North Carolina
Wogan, John B., III, Captain	<i>Assistant Operations Officer, Operations and Training</i> B.S., United States Military Academy
Woldt, Willard E., Captain	<i>Instructor in Flying Training</i>
Wolff, Emanuel H., Captain	<i>Instructor in Flying Training</i>
Woodson, John D., Major	<i>Air Officer Commanding, 2nd Cadet Squadron</i> B.S., United States Military Academy
Yancey, William B., Jr., Major	<i>Air Officer Commanding, 2nd Cadet Group</i> B.S., United States Military Academy
Zurawski, Donald D., Captain	<i>Instructor in Flying Training</i> B.S., United States Military Academy

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CWO Charles R. Kalb

Assistant Officer-in-Charge

Air Force Academy Band

**1st Lt. Carl W.
Costenbader**

Commander, Air Force Academy Band
B.Mus.E., Mansfield Pennsylvania State Teachers
College

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B.Mus., M.Mus., North Texas State College

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Curator, Academy Museum
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M.A., University of Kentucky*Evaluation***Maj. William F. Long***Director of Evaluation*

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Mr. Risdon J. Westen*Chief of Research Division*

B.S., University of Illinois

Cadet Vacancies for the Class Entering in June 1959

Congressional	531
District of Columbia	2
Alaska	1
Hawaii	1
Puerto Rico	1
Canal Zone	1
Vice Presidential	1
Presidential	22
Honor Military Schools	10
Sons of Deceased Veterans	10
Regular Components	23
Reserve Components	22
Qualified Alternates	87*
Total	712

**Or whatever additional number may be necessary to meet the needs of the Air Force without exceeding the authorized strength of the Air Force Cadet Wing.*

Common Medical Reasons for Disqualification of Air Force Academy Candidates

Listed below are some of the physical disqualifying factors on the Air Force Medical Examination for Flying Training (Class I).

Visual Disqualifications

Vision which is not 20/20 bilaterally, without glasses, for both near and distant vision; imperfect color vision.

Hearing Disqualifications

Hearing which is not 15/15 bilaterally by whispered voice test or better; existing perforations of the tympanic membrane; history of radical mastoidectomy.

Nasal Disqualifications

Allergic rhinitis or seasonal pollenosis; deviation of the nasal septum which causes greater than 50% obstruction on either side; polyp on either side.

Heart and Vascular System Disqualifications

Systolic blood pressure greater than 139 and diastolic blood pressure greater than 89; heart rate of 100 or more after repeated examination in recumbent position; all murmurs, other than functional. (Arrhythmias will be carefully evaluated.)

Height Disqualifications

Under 64 inches and above 76 inches; sitting height greater than 38 inches.

Weight Disqualifications

Evidence of gross under or over weight.

Abdomen Disqualifications

Hernia of any type, until corrected.

Lungs and Chest Disqualifications

History of tuberculosis within preceding 5 years. (Asthma of any degree or history thereof since 12th birthday will be carefully evaluated.)

Genito-Urinary Disqualifications

Varicocele, if large or painful, until corrected.

Extremities Disqualifications

Un-united fractures and old joint fractures with evidence of arthritis; pes planus with marked eversion and symptoms.

Spine and Musculoskeletal Disqualifications

Scoliosis of more than one inch; old vertebral fractures.

Skin Disqualifications

Chronic skin diseases such as severe acne or eczema or unsightly congenital markings.

Neurologic Evaluations

Head injury resulting in unconsciousness for any length of time and neurological diseases of any kind will be carefully evaluated.

Psychiatric Evaluations

Emotional instability and psychiatric diseases will be carefully evaluated.

Dental Disqualifications

Less than 8 serviceable, vital permanent teeth in each of the upper and lower arches, exclusive of third molars, so positioned as to retain and adequately stabilize bridges or partial dentures. Severe caries are remediable defects, but are disqualifying until corrected.

Air Force Academy and Air Crew Examining Centers**Alabama**

Maxwell AFB, Montgomery

Arizona

Davis-Monthan AFB, Tucson

California

Hamilton AFB, San Francisco

March AFB, Riverside

Mather AFB, Sacramento

Colorado

Lowry AFB, Denver

District of Columbia

Bolling AFB, Washington

Florida

MacDill AFB, Tampa

Georgia

Moody AFB, Valdosta

Illinois

Chanute AFB, Rantoul

Scott AFB, Belleville

Louisiana

Barksdale AFB, Shreveport

Massachusetts

Otis AFB, Falmouth

Westover AFB, Chicopee Falls

Michigan

Selfridge AFB, Mt. Clemens

Mississippi

Keesler AFB, Biloxi

Montana

Malmstrom AFB, Great Falls

Nebraska

Offutt AFB, Omaha

New Mexico

Walker AFB, Roswell

New York

Griffiss AFB, Rome

Mitchel AFB, Hempstead

Ohio

Wright-Patterson AFB, Dayton

Oklahoma

Tinker AFB, Oklahoma City

Pennsylvania

Olmsted AFB, Middletown

South Carolina

Shaw AFB, Sumter

South Dakota

Ellsworth AFB, Rapid City

Tennessee

Sewart AFB, Smyrna

Texas

James Connally AFB, Waco

Randolph AFB, San Antonio

Sheppard AFB, Wichita Falls

Utah

Hill AFB, Ogden

Virginia

Langley AFB, Hampton

Washington

McChord AFB, Tacoma

•

Alaska

Elmendorf AFB, Anchorage

Canal Zone

Albrook AFB, Balboa

England

7500th Air Base Group, Denham

Germany

Wiesbaden AFB, Wiesbaden

Hawaii

Hickam AFB, Honolulu

Japan

Tachikawa AFB, Tachikawa

Newfoundland

Ernest Harmon AFB, Stephenville

Philippine Islands

Clark AFB, Luzon

Puerto Rico

Ramey AFB, Aguadilla

Sample Letter Requesting a Congressional Nomination

Honorable _____
House of Representatives
Washington 25, D. C.

OR

Honorable _____
United States Senate
Washington 25, D. C.

Dear Mr. _____:

Dear Senator _____:

It is my desire to attend the Air Force Academy and to make the United States Air Force my career. I respectfully request that I be considered as one of your nominees for the class that enters the Academy in June 1959.

The following personal data is furnished for your information:

Name: _____

Address: _____

Parents' Name: _____

Date of Birth: _____

High School Attended: _____

Date of High School Graduation: _____

Approximate Grade Average: _____

Height: _____ Weight: _____

Visual Acuity: _____

I have been active in high school extracurricular activities shown on the attached list.

I shall greatly appreciate your consideration of my request for a nomination to the Academy.

Sincerely,

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